

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
All manufacturing industries															
Production all countries.....	10,340,093.0	11,910,450.8	13,593,815.1	13,839,588.6	13,759,141.4	13,849,811.4	13,919,366.0	14,502,877.3	15,549,747.5	15,847,361.3	16,815,659.7	16,914,800.0	17,586,645.5	19,015,698.6	18,783,194.6
United States	2,541,902.4	2,772,025.4	3,055,002.7	3,027,154.4	2,876,551.1	2,948,253.2	3,042,884.5	3,237,141.0	3,516,077.3	3,640,925.0	3,879,828.0	3,956,764.0	4,155,285.5	4,422,553.5	4,103,088.0
Canada	228,952.0	253,842.1	272,820.5	263,006.0	242,097.1	249,836.9	265,691.7	284,242.2	299,752.9	308,508.5	332,626.4	343,113.5	362,274.5	378,936.9	361,018.9
Mexico	112,319.4	155,129.8	162,137.1	173,058.5	175,444.7	179,604.3	180,595.2	185,441.7	198,592.9	220,431.2	240,660.1	259,953.5	267,710.6	289,571.2	278,230.4
European Union	3,207,112.8	3,584,366.6	3,959,657.0	4,030,275.4	3,995,565.9	3,971,797.8	3,928,932.5	4,177,967.4	4,517,843.2	4,414,928.0	4,608,681.5	4,744,905.2	4,869,966.3	5,303,144.3	5,318,007.0
Germany	1,026,689.3	1,072,366.0	1,152,376.3	1,208,230.6	1,234,325.7	1,201,259.9	1,106,964.0	1,145,450.5	1,195,691.1	1,159,679.1	1,221,532.1	1,251,707.5	1,258,260.1	1,381,034.7	1,388,816.6
France	511,140.1	597,047.1	673,209.0	682,637.4	687,946.5	687,706.3	643,363.9	667,269.6	711,795.4	704,253.6	740,425.5	783,289.8	821,240.1	898,115.6	932,657.2
United Kingdom	545,604.2	556,157.5	621,426.2	621,172.8	595,553.8	599,000.5	619,199.7	650,445.2	668,775.5	671,408.3	669,328.6	665,237.9	671,074.3	701,470.4	681,847.7
Italy	388,990.0	463,800.6	541,633.5	535,040.8	512,823.0	530,166.7	592,664.5	656,554.2	806,131.6	715,257.1	733,197.6	740,556.9	739,983.3	806,715.2	792,712.5
Other European Union	734,689.2	894,995.4	971,012.2	983,193.8	964,916.9	953,664.5	966,740.4	1,058,247.9	1,135,449.7	1,164,330.0	1,244,197.7	1,304,113.1	1,379,408.4	1,515,808.4	1,521,972.9
Brazil	279,120.4	342,188.7	374,954.7	289,898.8	279,343.6	441,500.4	481,313.9	490,183.7	456,655.7	447,739.8	466,813.7	459,506.1	479,430.7	509,446.6	516,358.6
Argentina	149,004.8	126,731.5	116,414.4	113,789.2	125,005.9	135,091.2	109,906.8	120,876.7	114,484.6	120,574.9	143,669.3	145,548.0	140,586.8	137,718.7	125,886.0
Chile	27,985.4	23,751.1	27,810.1	27,154.5	27,435.5	29,971.0	30,961.8	31,291.9	32,000.5	33,256.7	33,976.3	32,931.9	31,360.6	32,794.4	33,075.6
Peru	44,489.8	36,624.0	28,759.4	26,883.2	25,079.9	23,410.9	24,512.3	27,818.2	29,274.3	29,972.0	31,761.9	32,145.8	32,261.2	36,188.5	35,767.8
Costa Rica.....	2,877.4	4,076.7	4,395.6	4,334.7	5,585.8	6,109.3	6,584.9	6,804.2	6,999.2	6,836.0	7,577.2	8,748.3	12,501.5	12,400.1	11,948.2
Japan	1,916,814.6	2,142,347.5	2,344,368.0	2,501,909.3	2,609,610.7	2,505,898.7	2,386,681.4	2,369,328.7	2,504,289.1	2,634,186.0	2,808,738.4	2,608,059.4	2,509,750.7	2,598,486.7	2,466,116.4
China	165,183.4	279,316.0	460,603.6	469,027.4	495,688.6	606,320.6	756,889.2	890,747.3	1,013,591.2	1,081,894.4	1,251,596.1	1,379,844.8	1,545,939.8	1,777,266.9	1,982,773.4
South Korea	123,174.0	185,722.9	283,303.5	309,445.6	327,363.7	341,804.1	351,211.6	383,218.4	428,245.7	458,684.4	485,141.7	457,492.1	552,362.3	658,960.9	673,706.6
Australia	121,221.9	115,046.1	148,766.1	148,348.4	144,436.0	145,194.5	149,503.7	149,040.7	148,865.7	152,602.9	158,066.0	162,303.2	167,700.5	172,394.4	171,714.1
Taiwan	110,973.6	146,772.8	194,775.9	186,083.7	194,237.5	196,226.2	198,971.9	222,300.3	258,133.2	256,566.4	272,722.1	274,303.6	298,871.7	339,799.8	304,444.7
Singapore	21,089.0	22,785.1	37,484.4	41,041.6	43,309.0	41,093.7	45,024.6	50,798.0	55,888.4	57,535.0	60,112.4	59,772.9	70,812.7	77,057.2	70,275.1
Hong Kong	38,580.5	47,267.2	61,608.7	57,212.9	53,464.4	49,941.3	45,149.4	41,424.2	39,707.0	36,792.9	34,133.6	31,516.2	31,222.4	34,468.8	33,049.9
India	79,521.6	111,397.8	155,358.1	164,829.9	158,719.9	165,351.6	179,184.4	199,203.2	227,915.9	234,348.0	249,749.0	264,036.2	289,096.5	293,643.2	298,792.1
Malaysia	13,083.5	18,614.7	29,883.8	33,657.8	39,118.6	43,794.4	47,810.3	53,696.4	59,929.1	71,378.9	78,462.0	71,025.8	84,973.1	103,933.1	104,863.3
Thailand.....	25,510.6	32,413.4	56,574.5	65,399.2	73,015.0	81,356.1	90,422.5	98,884.5	110,126.9	117,739.3	118,709.2	106,017.2	117,529.4	132,591.5	135,708.2
Philippines	38,072.4	32,543.2	40,529.3	41,609.0	41,424.9	40,709.1	41,012.7	43,068.0	45,985.7	48,551.5	50,600.9	50,030.6	50,826.0	58,547.6	62,446.0
Indonesia	22,174.4	46,965.0	72,544.7	81,210.9	89,794.7	98,934.4	110,190.7	123,812.5	137,277.5	153,189.3	159,543.4	137,733.4	155,316.2	173,527.8	185,711.2
South Africa	80,174.5	76,027.8	84,393.3	82,496.9	78,728.4	76,146.3	76,007.8	78,087.3	85,297.9	87,641.5	90,415.9	87,941.3	88,181.7	91,160.1	93,984.1
Value added all countries	3,375,933.8	4,059,503.5	4,769,068.4	4,837,468.9	4,863,362.6	4,932,186.5	4,891,042.1	5,054,342.1	5,303,879.0	5,428,171.9	5,688,486.0	5,732,863.0	5,902,638.4	6,241,059.4	6,148,522.2
United States	818,002.1	970,871.9	1,105,433.5	1,096,199.2	1,060,444.4	1,079,052.2	1,116,729.2	1,199,307.8	1,277,659.5	1,308,798.2	1,379,609.0	1,436,382.8	1,505,534.9	1,576,692.8	1,477,584.1
Canada	71,000.8	80,663.3	92,284.7	88,880.7	82,436.9	83,402.2	87,659.5	94,078.9	98,707.1	99,754.9	108,352.5	114,054.1	122,699.4	127,182.5	122,093.7
Mexico	37,482.3	53,474.2	55,654.4	59,419.2	61,458.0	64,017.0	63,585.0	64,218.0	64,282.4	70,590.0	77,604.1	83,321.4	86,830.0	92,763.2	89,656.5
European Union	1,080,084.2	1,201,049.9	1,379,274.9	1,408,355.1	1,405,558.5	1,404,896.6	1,390,342.7	1,458,649.6	1,528,728.7	1,497,535.9	1,549,288.5	1,596,817.7	1,611,740.1	1,684,961.6	1,691,943.7
Germany	372,118.1	401,361.1	438,382.3	457,736.2	470,529.4	460,585.6	427,499.8	440,848.1	440,377.1	427,762.5	442,395.0	451,714.6	442,436.8	461,564.9	464,214.0
France	166,922.1	190,058.5	219,304.8	223,113.5	224,924.6	227,020.2	213,268.2	219,359.1	231,054.9	227,411.2	237,140.2	248,482.7	254,790.9	264,158.5	277,617.3
United Kingdom	197,751.5	201,907.3	239,305.7	239,062.0	226,839.4	226,839.7	230,018.0	240,772.2	244,440.7	246,152.0	249,328.8	251,284.1	252,016.5	257,149.8	247,555.5
Italy	128,056.5	147,949.5	178,542.6	177,967.7	175,213.1	180,715.7	200,052.8	214,057.7	248,945.6	227,105.6	228,773.9	233,072.8	230,730.4	241,858.1	238,912.0
Other European Union	215,236.0	259,773.6	303,739.4	310,475.7	308,052.0	309,735.5	319,503.9	343,612.5	363,910.3	369,104.7	391,650.6	412,263.5	431,765.4	460,230.3	463,644.9
Brazil	137,329.5	168,359.7	184,480.8	142,632.6	137,439.4	217,221.9	173,901.5	170,169.0	157,809.1	147,505.8	156,647.2	156,713.4	154,074.2	163,720.4	164,397.7
Argentina	55,601.6	47,290.3	43,440.4	42,460.8	46,646.3	50,409.7	41,012.1	44,600.3	41,405.6	44,076.9	47,589.7	48,370.7	46,721.9	45,768.7	40,539.6
Chile	10,224.3	6,729.1	9,204.2	9,295.1	9,791.2	10,908.7	11,700.2	12,177.8	13,095.2	13,516.1	14,267.4	14,050.7	13,380.3	13,992.1	13,974.4
Peru	12,891.6	12,703.3	12,831.1	12,073.4	11,263.5	10,514.0	11,008.6	12,493.3	13,147.2	13,460.6	14,264.4	14,436.8	14,488.7	16,252.4	15,997.4
Costa Rica.....	1,002.5	1,420.3	1,531.4	1,510.2	1,946.1	2,128.4	2,231.8	2,338.1	2,393.1	2,368.5	2,608.8	2,995.8	4,281.1	4,246.3	4,090.2
Japan	555,152.0	704,706.2	835,543.4	892,441.5	939,413.4	926,332.7	889,660.6	883,367.0	931,721.6	988,748.8	1,028,951.6	957,454.4	924,228.1	954,967.1	909,558.4
China	131,122.8	93,592.8	131,324.1	129,366.2	145,003.6	168,613.8	211,730.0	233,436.0	250,436.8	294,737.4	331,604.9	356,369.3	393,327.6	444,896.3	487,609.0
South Korea	27,821.3	45,413.8	73,953.9	80,762.5	88,459.7	93,134.5	98,139.8	108,740.3	120,983.6	129,188.9	137,674.4	127,432.6	154,243.6	178,738.4	181,983.5
Australia	38,471.7	39,182.2	45,046.6	43,037.9	42,513.5	44,071.4	45,940.6	46,428.1	47,023.1	48,202.0	51,864.4	51,640.7	52,401.8	52,877.2	52,623.9
Taiwan	27,657.7	40,405.9	57,079.7	56,594.2	60,415.8	62,866.8	64,402.0	68,195.8	72,212.9	75,645.3	80,689.2	83,389.3	88,946.9	95,446.1	89,397.7
Singapore	7,640.9	8,255.5	13,581.3	14,870.1	15,691.6	14,889.0	16,313.2	18,405.0	20,249.4	20,846.0	21,779.8	21,656.8	25,656.7	27,919.2	24,468.5
Hong Kong	10,525.3	13,484.6	17,017.7	16,453.9	15,										

World industry and trade data for selected countries or economies and industries: 1980-2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Thailand.....	9,243.0	11,744.0	20,498.0	23,695.3	26,454.6	29,476.8	32,761.7	35,827.6	39,901.0	42,659.1	43,010.5	38,411.9	42,583.0	48,040.3	49,085.5
Philippines.....	13,794.3	11,791.0	14,684.5	15,075.7	15,009.0	14,749.6	14,859.6	15,604.3	16,661.4	17,591.1	18,333.6	18,127.0	18,415.2	20,253.7	21,557.7
Indonesia.....	8,034.2	17,016.3	26,284.2	29,424.2	32,534.3	35,845.7	39,924.1	44,859.5	49,737.9	55,503.3	57,805.4	49,903.3	56,273.9	62,872.3	69,076.6
South Africa.....	25,129.0	23,829.3	26,451.3	25,856.9	24,675.7	23,866.4	23,823.0	24,458.9	26,047.0	26,407.1	27,044.9	26,603.1	26,562.6	27,459.8	28,403.2
Exports all countries.....	3,952,607.5	3,979,809.4	5,590,474.8	6,205,431.7	6,458,263.9	6,991,184.1	7,038,212.7	7,683,987.3	8,677,140.6	9,065,110.4	9,773,718.1	10,208,757.2	10,737,791.0	11,617,442.2	11,412,328.9
United States.....	580,650.0	485,034.8	746,251.3	810,870.6	867,364.8	928,571.3	939,693.4	1,028,952.4	1,128,445.0	1,222,330.9	1,368,270.2	1,395,764.6	1,439,859.0	1,570,102.3	1,525,208.1
Canada.....	141,617.2	179,879.2	206,568.1	226,511.8	224,096.5	244,457.5	259,014.3	293,859.7	328,336.3	346,836.7	369,108.9	390,952.2	439,225.2	475,795.8	455,686.0
Mexico.....	13,057.6	27,424.1	33,390.0	36,414.5	39,265.4	79,588.3	88,099.1	108,476.5	144,581.8	174,130.6	203,307.7	233,802.0	271,844.9	324,087.9	302,787.7
European Union.....	1,996,843.6	1,885,745.1	2,647,030.7	3,001,284.0	3,017,975.7	3,198,026.6	3,117,660.4	3,346,524.9	3,736,736.6	3,854,686.7	4,059,381.4	4,339,052.3	4,427,780.3	4,480,609.7	4,446,467.1
Germany.....	538,122.1	538,692.5	759,951.8	833,698.8	829,343.3	876,162.0	792,105.5	873,770.2	945,371.7	973,638.9	999,367.5	1,113,919.9	1,147,363.4	1,110,098.0	1,106,546.6
France.....	289,285.1	260,675.8	364,517.3	418,258.9	429,250.0	458,905.6	444,990.3	476,745.7	533,266.9	525,943.0	552,795.0	600,074.5	613,333.2	636,619.5	632,606.3
United Kingdom.....	301,984.2	242,248.4	327,321.8	386,601.1	384,624.2	395,295.1	391,463.2	414,521.6	468,206.5	505,255.1	547,595.9	550,849.2	540,526.7	556,183.5	548,806.0
Italy.....	224,209.4	232,597.9	315,730.3	354,441.4	355,516.5	371,667.9	390,102.2	406,529.2	465,550.4	484,873.1	475,263.9	494,043.2	486,403.2	499,897.0	497,907.8
Other European Union.....	643,242.9	611,530.4	879,509.6	1,008,284.0	1,019,241.7	1,095,994.2	1,098,999.2	1,174,958.2	1,324,341.2	1,364,976.5	1,484,359.1	1,580,165.6	1,640,153.8	1,677,811.7	1,660,600.5
Brazil.....	52,048.4	63,603.4	71,417.0	64,866.9	66,038.7	76,759.5	78,669.2	85,531.7	88,193.2	90,035.4	95,677.8	98,455.8	97,025.9	103,251.1	102,317.2
Argentina.....	20,072.0	13,049.5	17,441.5	20,744.5	20,453.2	21,292.6	22,423.1	25,073.5	32,012.5	34,636.3	39,754.5	41,160.4	39,131.3	40,271.2	39,526.4
Chile.....	10,037.4	6,707.8	11,696.8	13,306.4	14,093.3	16,426.1	15,901.1	18,029.0	21,070.3	23,187.7	25,057.5	23,955.4	25,049.8	26,065.6	26,238.6
Peru.....	5,019.8	4,804.3	4,279.4	5,205.2	6,314.9	6,417.9	6,840.5	8,335.8	9,061.7	9,499.5	11,239.2	10,746.8	11,193.3	11,765.7	11,667.6
Costa Rica.....	777.5	762.7	946.9	974.8	1,115.1	1,191.0	1,148.9	1,328.9	1,693.8	1,766.3	2,721.8	4,359.5	4,123.1	4,613.8	4,876.5
Japan.....	456,039.6	536,637.6	633,047.0	667,158.9	699,928.8	746,196.7	741,521.5	761,511.1	828,267.5	812,233.5	860,925.1	840,356.0	902,604.3	1,008,988.9	981,061.4
China.....	35,422.9	36,286.7	78,540.6	113,386.7	135,697.1	162,455.9	176,281.1	221,756.8	270,728.8	287,603.4	352,582.7	377,228.0	418,345.0	533,293.8	546,215.0
South Korea.....	48,369.1	75,613.3	121,515.2	124,615.2	139,066.8	150,238.9	155,347.8	174,123.4	221,426.3	246,367.5	275,735.1	302,610.1	330,851.7	394,146.4	378,559.1
Australia.....	29,018.1	24,312.2	47,332.5	55,471.6	58,982.6	65,419.3	65,678.8	70,323.8	62,435.2	68,812.7	70,282.2	66,426.6	70,306.4	71,550.2	76,602.8
Taiwan.....	56,183.8	83,778.4	136,158.5	145,018.1	161,985.7	176,635.8	191,078.8	204,431.3	230,513.4	242,733.0	257,881.8	264,805.1	300,552.3	363,571.0	355,654.7
Singapore.....	35,527.0	43,243.4	86,561.7	98,137.9	109,046.3	120,032.9	136,096.5	174,127.5	210,284.5	229,634.2	242,336.6	229,633.6	259,137.8	300,181.8	285,617.3
Hong Kong.....	54,998.9	78,265.6	156,149.1	174,087.7	205,677.9	247,281.5	253,052.6	282,627.7	320,811.9	329,642.9	356,138.6	332,710.5	330,419.3	387,419.2	384,681.7
India.....	16,967.4	17,270.8	27,433.1	28,803.4	30,931.3	38,885.8	42,006.6	48,918.5	57,718.4	62,768.3	64,265.8	65,025.9	76,231.7	87,747.6	87,355.8
Malaysia.....	12,589.9	17,891.1	35,356.4	43,618.2	54,383.5	67,183.5	78,003.4	97,275.4	118,882.4	134,171.2	142,779.0	149,190.8	181,193.3	210,891.3	197,458.8
Thailand.....	10,326.2	14,981.4	36,140.0	43,999.4	54,574.3	62,307.3	70,322.4	81,706.7	99,674.9	98,016.9	106,143.3	109,670.0	124,146.8	147,842.0	142,971.8
Philippines.....	8,002.0	9,983.5	13,993.8	15,275.4	16,909.1	18,796.9	21,623.6	24,506.6	31,584.6	37,663.5	49,626.6	68,216.1	81,450.4	96,999.8	90,476.1
Indonesia.....	9,871.3	16,346.7	31,504.5	35,482.9	41,761.9	51,340.2	52,453.0	55,749.8	60,280.8	67,569.9	76,336.3	82,830.6	78,136.8	97,423.9	96,380.6
South Africa.....	16,386.3	21,666.8	21,534.2	23,105.2	24,727.2	22,266.3	21,108.8	25,594.0	32,363.5	27,507.0	31,256.1	32,814.5	42,659.7	40,591.8	39,934.0
Percent															
Import penetration all countries.....	36.5	32.8	40.0	43.6	45.6	49.2	49.3	51.7	54.5	56.2	57.4	60.1	60.8	60.9	60.7
United States.....	20.0	26.8	28.4	29.8	31.3	33.7	34.7	35.9	35.8	37.0	38.9	41.7	42.9	44.3	45.1
Canada.....	62.6	70.1	81.9	89.2	94.4	95.5	94.9	101.1	111.0	112.9	110.8	113.0	121.8	134.4	134.1
Mexico.....	39.7	23.0	33.3	35.7	42.1	59.1	62.6	70.0	70.2	77.2	84.7	89.9	101.2	112.4	112.5
European Union.....	57.6	48.1	64.7	72.9	74.6	79.5	76.8	77.6	80.6	85.6	87.0	91.4	91.1	84.3	83.4
Germany.....	41.6	39.8	57.9	63.1	64.3	70.2	68.4	72.7	77.1	80.8	78.3	86.9	89.2	77.3	76.7
France.....	54.9	40.0	55.2	63.1	63.6	67.3	68.2	70.3	73.6	74.2	73.4	76.4	74.8	69.5	66.8
United Kingdom.....	50.9	42.9	54.3	61.9	63.4	65.4	62.9	63.6	68.7	74.2	82.6	85.2	83.9	81.7	81.5
Italy.....	52.5	41.9	53.5	61.8	65.2	65.8	55.8	52.2	47.6	57.3	57.4	61.0	61.5	57.8	59.2
Other European Union.....	85.1	69.0	89.5	101.4	104.1	113.0	112.1	109.7	116.4	117.8	120.2	122.2	119.8	112.8	111.2
Brazil.....	14.5	6.8	10.0	13.5	15.4	9.3	10.6	13.1	20.1	20.9	23.8	24.1	20.1	20.5	19.6
Argentina.....	16.9	6.9	8.3	8.8	14.0	21.2	29.0	31.5	32.2	35.2	36.0	37.6	33.1	32.9	34.8
Chile.....	43.8	26.4	48.8	53.2	52.8	56.9	53.5	60.4	74.5	74.8	79.6	77.3	78.9	86.7	81.7
Peru.....	16.2	12.2	14.8	19.3	23.2	28.3	30.1	34.5	39.7	39.5	42.1	40.8	36.9	35.3	35.0
Costa Rica.....	51.0	25.1	32.4	35.4	29.4	32.0	33.8	34.2	33.7	37.3	42.0	54.1	34.1	36.1	38.8
Japan.....	7.8	8.5	14.2	14.5	14.0	14.9	16.4	18.6	20.9	20.7	19.6	19.7	22.8	25.8	26.9
China.....	28.4	33.8	23.5	24.7	28.5	29.7	31.4	29.0	28.6	28.7	27.6	26.0	25.7	28.0	27.0
South Korea.....	33.0	35.5	40.5	39.9	43.0	41.3	41.5	44.9	50.7	50.8	49.6	51.2	47.0	48.7	47.4
Australia.....	37.3	39.1	45.7	46.7	47.0	49.7	48.2	54.1	54.4	57.2	56.7	53.6	55.0	54.9	53.9
Taiwan.....	44.8	44.3	63.0	72.2	79.0	87.2	96.2	89.1	85.5	91.8	92.7	95.6	97.1	102.1	118.3
Singapore.....	218.8	271.9	262.4	264.0	257.2	268.7	266.3	370.3	385.7	467.5	444.9	461.9	550.4	648.6	753.1

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Percent														
Hong Kong	142.1	214.5	446.9	371.4	463.5	649.3	829.5	838.6	861.2	917.9	945.7	977.3	954.5	908.4	895.4
India	32.9	28.5	24.5	20.7	17.4	18.9	20.8	21.7	22.9	22.7	23.3	23.2	24.2	26.3	25.9
Malaysia	137.7	114.2	115.3	120.0	123.3	145.1	155.9	160.6	174.0	174.6	168.2	280.7	290.9	223.4	197.0
Thailand	59.3	49.8	70.9	76.5	80.0	81.0	82.2	85.8	92.5	87.9	89.8	105.3	102.3	110.9	106.0
Philippines	40.6	28.9	43.5	44.2	44.0	53.6	61.5	66.6	74.3	86.3	98.6	128.9	170.5	155.3	118.4
Indonesia	93.9	45.4	42.6	47.4	49.0	51.9	46.0	42.9	43.8	42.9	45.0	67.6	38.0	45.6	41.1
South Africa	40.2	28.9	31.3	32.1	35.1	36.8	37.5	42.0	47.6	43.4	44.0	45.4	48.7	48.5	44.9
	Millions of 1997 U.S. dollars														
Imports all countries	3,640,312.6	3,753,688.0	5,408,238.7	5,994,954.3	6,227,821.8	6,737,048.0	6,812,065.5	7,454,350.6	8,427,843.8	8,822,802.9	9,501,086.2	9,947,200.5	10,525,657.1	11,402,925.9	11,210,754.4
United States	495,867.7	814,595.1	923,564.6	943,956.3	922,007.7	1,034,229.1	1,125,822.0	1,248,430.6	1,350,312.3	1,430,646.6	1,599,710.4	1,800,687.6	2,009,316.4	2,270,300.9	2,122,807.5
Canada	145,554.1	177,678.0	235,893.4	243,455.0	244,592.1	247,687.0	262,681.3	295,827.3	313,246.5	324,274.5	373,184.2	390,846.6	420,445.7	441,919.6	439,443.1
Mexico	55,544.6	38,342.6	66,880.1	79,060.4	98,316.8	134,406.0	137,092.9	157,348.5	134,664.3	165,142.2	206,338.8	241,526.5	274,928.9	339,556.1	336,186.2
European Union	1,728,943.8	1,533,527.0	2,466,654.6	2,842,013.3	2,908,823.2	3,061,862.2	2,826,738.6	3,027,119.8	3,419,559.8	3,494,902.1	3,676,664.1	4,054,880.4	4,226,298.2	4,247,299.3	4,238,570.9
Germany	372,122.2	325,103.3	501,475.4	624,374.9	699,435.2	731,793.5	669,357.5	712,936.2	813,406.0	799,780.7	803,503.8	883,928.6	901,487.0	896,606.0	884,614.3
France	268,992.3	231,570.7	390,375.3	446,692.1	449,700.5	462,275.8	427,459.0	455,553.4	502,254.9	506,947.6	516,900.5	582,813.4	610,386.4	624,617.8	627,043.9
United Kingdom	261,341.0	252,892.9	385,745.9	412,456.8	385,717.9	412,316.7	418,080.8	436,642.0	486,263.8	518,959.6	577,064.7	631,019.9	653,668.8	660,512.8	655,952.1
Italy	183,547.4	164,538.1	268,789.4	305,810.7	306,334.0	320,846.6	267,766.3	286,900.5	330,241.4	329,482.1	347,871.7	384,268.7	399,158.5	407,206.3	410,271.9
Other European Union	642,940.9	559,422.0	920,268.7	1,052,678.8	1,067,635.6	1,134,629.7	1,044,075.1	1,135,087.7	1,287,393.7	1,339,732.2	1,431,323.4	1,572,849.7	1,661,597.6	1,658,356.5	1,660,688.7
Brazil	36,947.4	17,537.7	32,502.3	34,893.8	37,453.3	35,933.1	46,333.7	60,394.6	93,626.1	95,371.9	115,968.0	116,149.4	98,624.9	104,964.3	101,171.8
Argentina	28,192.5	8,247.5	8,647.3	8,960.4	17,235.8	30,894.4	35,721.2	44,008.8	39,292.2	46,665.8	58,385.8	63,147.1	50,872.3	47,913.7	46,518.3
Chile	12,703.3	6,006.3	13,827.4	14,438.4	15,107.3	19,705.8	20,923.0	22,644.8	28,286.8	31,570.0	34,684.8	34,077.7	26,502.1	30,138.5	29,739.0
Peru	7,475.0	4,157.5	4,186.9	5,111.3	5,747.6	6,771.4	8,014.8	10,626.2	13,368.4	13,457.7	14,921.9	15,283.4	12,700.2	13,043.2	12,967.7
Costa Rica	1,619.8	1,075.7	1,605.1	1,816.0	1,901.0	2,336.0	2,804.9	2,846.7	2,682.8	3,010.9	3,512.8	5,287.1	4,545.3	4,669.4	4,857.8
Japan	123,863.6	144,414.2	290,019.4	316,743.4	317,913.4	319,519.4	335,794.1	381,363.7	459,499.8	480,226.9	474,996.0	430,682.3	481,050.3	560,242.4	536,958.3
China	47,353.5	109,746.2	114,222.9	115,337.8	142,515.6	184,557.4	260,387.5	275,247.8	297,530.5	320,349.6	342,825.2	350,121.8	387,047.8	476,968.4	517,473.2
South Korea	34,372.2	50,842.3	98,349.0	112,102.9	129,126.5	123,818.1	128,064.4	157,976.9	199,402.5	214,317.4	205,745.7	135,787.0	188,525.9	244,276.3	237,586.3
Australia	52,405.1	60,892.8	82,476.7	79,162.8	75,183.0	80,085.2	81,382.2	94,212.9	104,797.4	111,057.0	115,001.3	120,303.8	125,960.3	130,629.0	128,423.3
Taiwan	36,182.5	37,087.5	90,398.7	95,240.2	110,828.8	132,321.9	143,725.0	144,404.3	164,647.0	163,059.4	187,957.2	188,557.1	227,574.7	266,711.1	254,156.1
Singapore	46,746.5	48,463.6	88,062.0	105,264.7	117,535.5	131,825.2	150,143.0	172,962.4	210,187.5	223,566.5	235,058.7	207,618.6	220,348.6	260,413.6	247,702.4
Hong Kong	57,916.4	70,915.0	132,545.7	165,063.6	197,860.3	235,320.5	238,137.1	272,675.9	310,111.6	323,522.9	360,080.8	337,604.3	334,199.3	394,547.7	396,885.7
India	27,681.4	34,360.9	40,004.0	34,825.4	26,858.3	29,454.3	35,651.8	41,706.8	51,683.8	51,270.8	56,300.0	60,351.9	68,237.2	73,990.5	75,009.2
Malaysia	29,768.9	30,423.9	44,685.1	58,086.4	70,950.2	75,140.7	87,144.2	118,096.1	145,353.8	148,829.3	158,684.3	126,195.8	145,439.9	180,684.6	176,095.9
Thailand	20,011.6	19,313.0	48,946.3	64,056.8	69,191.1	76,155.3	84,916.6	98,007.5	124,850.9	122,572.1	110,573.6	80,019.3	93,005.5	112,216.8	112,707.6
Philippines	17,965.9	8,650.8	20,673.7	20,525.3	19,127.7	24,902.9	31,177.3	35,972.2	41,351.6	58,056.4	69,940.1	61,943.6	66,832.7	69,509.8	66,917.6
Indonesia	29,881.7	23,907.7	32,209.8	43,172.5	48,182.9	52,834.3	48,977.7	51,432.9	61,080.2	64,724.7	68,057.4	39,891.6	35,865.7	49,161.0	48,658.8
South Africa	40,385.3	21,992.1	28,282.8	27,566.5	29,018.8	30,961.2	32,623.3	37,861.5	46,853.5	46,760.2	46,490.1	47,861.4	45,055.9	48,397.3	46,777.2
Apparent consumption all countries	9,982,482.8	11,451,843.3	13,523,698.8	13,761,936.4	13,656,816.3	13,692,541.3	13,826,281.1	14,418,781.5	15,461,841.8	15,690,967.1	16,543,027.8	16,549,353.8	17,315,865.7	18,740,523.1	18,459,659.8
United States	2,483,012.3	3,034,995.3	3,248,026.6	3,170,324.8	2,945,572.3	3,066,143.9	3,248,805.7	3,482,325.4	3,769,089.8	3,870,130.2	4,111,268.2	4,321,615.5	4,680,941.2	5,128,203.8	4,711,763.7
Canada	232,422.9	253,613.9	287,920.6	272,799.6	259,133.8	259,454.7	276,914.1	292,481.5	282,244.0	287,214.1	336,701.8	345,872.4	345,109.7	328,892.8	327,689.9
Mexico	140,065.3	166,873.2	200,626.8	221,606.2	233,384.3	227,360.0	219,120.8	224,836.4	191,885.3	213,917.2	243,691.2	268,771.6	271,701.8	302,221.5	298,803.3
European Union	3,003,525.7	3,188,842.7	3,814,961.3	3,897,407.8	3,899,302.8	3,851,855.4	3,681,247.0	3,899,741.4	4,244,688.7	4,084,769.1	4,225,964.2	4,437,018.8	4,640,930.0	5,041,316.8	5,083,750.8
Germany	895,175.0	817,472.5	866,890.0	989,797.5	1,087,640.8	1,042,317.9	978,860.5	980,918.9	1,054,678.4	989,299.7	1,025,668.4	1,017,223.4	1,010,658.5	1,159,814.5	1,153,734.9
France	490,014.5	578,376.1	707,327.7	708,072.0	707,131.0	687,090.1	626,674.7	647,703.3	682,441.4	682,983.8	704,531.0	762,811.9	816,042.6	898,854.5	939,421.5
United Kingdom	513,218.9	588,991.4	710,849.4	666,416.5	608,901.4	630,936.6	664,613.2	686,441.1	707,613.4	699,902.1	698,797.4	740,465.7	778,803.3	808,909.5	804,834.3
Italy	349,748.6	392,786.9	502,039.0	494,740.0	470,094.3	487,316.4	480,080.6	549,534.3	694,231.9	574,789.2	605,805.4	629,541.6	648,642.8	704,136.6	692,871.8
Other European Union	755,368.7	811,215.9	1,027,855.3	1,038,381.8	1,025,535.4	1,004,195.1	931,018.0	1,035,143.9	1,105,723.5	1,137,794.3	1,191,161.9	1,286,976.2	1,386,782.8	1,469,601.7	1,492,888.3
Brazil	255,549.9	259,142.2	324,281.7	258,393.9	244,037.3	385,577.5	438,688.9	460,991.3	464,813.9	455,663.4	487,103.9	481,410.5	491,118.8	511,505.8	515,161.1
Argentina	895,729.9	119,675.0	104,329.3	102,210.1	123,176.1	145,766.2	123,296.4	139,597.3	122,199.9	132,480.1	162,300.6	168,089.9	153,810.2	145,436.3	133,778.8
Chile	29,034.6	22,726.9	28,327.7	27,128.8	28,629.5	34,615.2	39,116.9	37,491.1	37,975.8	42,216.6	43,603.6	44,103.9	33,575.8	34,782.4	36,399.4
Peru	46,272.8	33,971.9	28,241.8	26,471.5	24,732.7	23,928.6	26,594.7	30,789.0	33,642.0	34,078.3	35,444.5	37,470.3	34,460.7	36,994.4	37,049.4
Costa Rica	3,179.2	4,291.3	4,948.5	5,131.2	6,459.4	7,294.9	8,292.2	8,336.9	7,956.5	8,069.0	8,368.2	9,780.6	13,321.5	12,929.3	12,516.5
Japan	1,590,102.3	1,690,279.9	2,039,897.9	2,191,349.7	2,272,368.6	2,142,234.9	2,046,955.7	2,049,844.5	2,199,689.8	2,324,543.5	2,422,809.3	2,189,248.3	2,112,741.7	2,175,519.9	1,995,894.5
China	166,796.7	324,													

Appendix table 6-1
World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Australia	140,616.7	155,649.3	180,510.1	169,503.2	160,114.2	161,228.5	168,816.9	174,166.5	192,512.7	194,027.8	202,785.1	224,424.1	229,105.0	237,879.8	238,096.2
Taiwan	80,842.1	83,767.5	143,603.5	131,840.1	140,339.5	151,766.3	149,395.0	162,005.5	192,587.3	177,665.9	202,797.5	197,265.3	234,267.9	261,186.4	214,832.0
Singapore	21,368.6	17,822.6	33,558.0	39,877.0	45,692.7	49,069.9	56,388.8	46,707.4	54,493.6	47,823.7	52,834.5	44,948.0	40,037.3	40,148.8	32,890.9
Hong Kong	40,761.7	33,061.2	29,657.7	44,449.7	42,686.7	36,242.5	28,707.6	32,517.7	36,010.2	35,246.1	38,075.8	34,543.7	35,014.1	43,435.8	44,324.7
India	84,157.7	120,628.9	163,511.2	168,190.7	154,330.6	155,734.3	171,725.4	191,985.6	225,393.3	226,147.0	241,783.1	260,022.6	281,824.5	281,294.1	289,300.1
Malaysia	21,623.2	26,638.7	38,771.5	48,421.9	57,539.6	51,786.9	55,901.1	73,559.1	83,527.6	85,226.7	94,367.3	44,951.8	49,991.3	80,863.9	89,385.9
Thailand	33,741.4	38,774.6	69,008.4	83,771.0	86,493.4	94,015.5	103,368.7	114,249.8	134,911.3	139,393.2	123,139.5	76,025.0	90,912.5	101,155.1	106,352.7
Philippines	44,295.1	29,967.1	47,563.9	46,493.2	43,475.7	46,494.4	50,717.3	54,050.2	55,627.0	67,285.0	70,914.4	48,059.2	39,199.1	44,752.9	56,542.9
Indonesia	31,839.3	52,680.8	75,531.0	91,049.6	98,390.0	101,865.6	106,390.7	119,911.2	139,507.0	150,771.1	151,264.4	58,982.4	94,483.5	107,719.8	118,481.8
South Africa	100,415.5	76,135.0	90,398.5	85,800.2	82,720.7	84,114.7	86,946.3	90,097.4	98,540.4	107,643.1	105,649.8	105,437.7	92,508.1	99,861.2	104,190.7
High-technology industries															
Production all countries	794,952.2	1,108,600.7	1,365,744.8	1,413,586.7	1,470,682.6	1,474,753.2	1,498,597.5	1,581,262.7	1,772,857.0	1,934,853.6	2,234,115.9	2,382,889.7	2,624,884.9	3,011,521.3	2,960,809.2
United States	251,261.9	365,325.5	422,673.3	434,590.0	432,222.0	446,647.4	450,979.1	472,321.9	544,171.4	597,090.6	701,087.3	787,848.9	868,502.4	980,452.3	941,383.0
Canada	11,598.6	13,581.9	20,057.3	21,260.2	20,442.3	21,408.5	21,937.4	25,621.5	31,551.1	30,619.9	30,700.4	34,226.1	36,268.3	44,122.5	38,430.5
Mexico	7,758.9	7,988.1	10,386.6	11,542.0	10,904.6	11,369.0	12,209.9	13,893.8	20,038.9	23,883.1	30,406.5	36,576.5	39,354.8	44,617.5	42,553.6
European Union	232,438.6	306,573.2	352,777.4	362,504.7	376,408.4	380,567.7	376,499.0	400,733.0	434,206.8	451,808.0	494,724.3	534,623.1	584,460.0	668,617.0	675,964.7
Germany	86,750.4	94,750.5	93,696.7	95,150.2	104,679.0	102,712.9	91,526.7	95,590.9	94,967.2	95,897.8	104,912.1	108,761.1	117,129.4	140,336.5	148,097.7
France	38,170.7	58,195.7	74,319.8	76,474.7	79,885.8	81,608.7	80,837.4	83,819.1	94,017.7	96,351.2	107,441.8	120,460.7	133,100.6	150,581.5	163,385.0
United Kingdom	49,401.2	61,897.6	77,566.9	79,244.5	81,589.4	83,331.5	82,060.4	87,308.9	91,721.1	97,757.4	103,733.2	109,528.3	114,334.8	127,200.6	121,694.1
Italy	22,632.0	38,420.5	41,078.6	43,039.5	40,737.2	41,882.9	46,415.5	49,506.1	56,552.5	54,997.9	54,796.0	55,571.0	55,389.8	55,434.6	54,191.4
Other European Union	35,484.2	53,308.8	66,115.4	68,595.9	69,517.1	71,031.7	75,659.0	84,508.1	96,948.3	106,803.7	123,841.2	140,301.9	164,505.5	195,063.8	188,596.5
Brazil	48,544.9	42,059.0	55,283.6	48,084.2	47,584.9	52,918.8	52,149.0	46,676.0	44,015.7	45,153.6	49,606.0	45,327.1	41,230.6	34,766.5	34,115.4
Argentina	5,011.0	3,722.9	2,831.2	3,583.7	4,103.7	5,148.2	4,715.2	5,168.0	4,599.6	4,793.5	5,748.3	6,046.9	5,229.9	5,199.6	4,445.4
Chile	579.4	545.3	776.7	690.5	721.5	829.7	941.4	890.5	833.4	782.2	783.0	818.1	708.8	787.8	773.7
Peru	1,394.2	808.5	546.1	546.2	627.0	713.0	645.0	566.7	552.3	572.7	635.6	588.9	578.7	609.4	604.6
Costa Rica	154.1	176.9	193.1	198.0	125.7	145.9	217.9	235.0	199.9	162.2	160.1	170.5	154.5	152.4	148.4
Japan	139,578.9	231,351.0	290,977.3	309,022.5	336,627.4	314,244.6	305,221.6	306,094.2	345,235.5	386,368.7	451,479.8	411,056.5	396,482.7	410,984.2	381,126.0
China	7,348.5	17,946.4	30,143.4	30,038.2	34,415.1	41,199.0	51,384.2	61,469.0	60,380.9	84,959.7	107,219.6	132,963.5	179,581.9	226,477.6	256,836.3
South Korea	7,466.4	13,050.0	28,197.4	32,344.7	34,843.5	35,802.3	40,864.1	51,162.4	60,262.7	67,455.8	86,386.8	105,012.1	145,053.3	200,501.4	208,762.2
Australia	4,773.6	4,917.0	6,050.1	6,272.9	6,776.8	7,408.9	7,471.7	7,945.9	8,088.7	8,539.6	9,726.9	10,423.6	10,861.8	11,935.4	11,586.5
Taiwan	9,069.6	15,704.8	24,173.5	23,924.4	25,694.2	26,480.1	29,678.0	34,760.3	46,500.2	51,239.8	65,116.9	71,425.3	84,146.6	104,729.7	88,998.1
Singapore	6,472.4	9,800.1	19,218.2	21,330.5	21,369.4	23,953.7	28,218.0	35,170.6	41,237.5	42,506.3	46,847.7	48,129.4	55,297.1	64,261.0	57,995.8
Hong Kong	6,909.2	7,725.9	11,208.9	10,395.6	9,091.7	9,448.4	8,713.9	8,502.2	8,616.8	7,825.3	7,014.1	8,374.1	9,142.7	9,789.3	8,982.9
India	1,982.2	3,133.1	5,915.4	5,973.9	6,525.8	7,695.9	8,225.7	9,728.0	10,672.9	10,943.6	13,097.4	12,837.4	14,614.7	15,362.5	15,498.5
Malaysia	1,496.1	2,208.1	6,884.3	8,937.1	12,330.4	14,763.6	17,969.8	23,704.2	29,798.7	33,830.9	36,033.7	36,144.0	45,446.2	63,027.3	65,431.9
Thailand	1,201.9	1,255.9	3,356.8	5,170.2	6,868.9	7,729.4	6,591.1	4,176.3	5,584.7	6,027.3	7,598.9	7,297.7	8,981.0	11,672.2	11,703.9
Philippines	1,695.3	1,221.3	2,499.5	2,782.2	3,263.3	3,526.9	3,606.4	4,018.6	5,087.4	5,033.9	5,495.5	5,421.6	6,185.5	7,128.7	7,688.6
Indonesia	401.5	781.4	1,021.3	1,680.1	1,981.9	2,520.4	2,884.4	3,898.9	4,836.0	5,837.8	6,860.2	9,648.0	7,240.7	8,521.6	9,539.8
South Africa	2,972.6	2,563.8	3,168.9	3,153.0	2,902.0	2,733.1	2,711.6	2,819.2	3,009.5	3,004.7	3,109.8	2,953.7	2,942.0	3,044.1	3,131.0
Value added all countries	333,262.6	463,133.6	567,075.6	589,106.3	604,757.5	598,516.6	603,277.0	628,667.4	673,919.3	732,110.6	830,136.0	872,886.2	948,367.4	1,062,528.8	1,065,373.1
United States	103,205.7	159,802.5	190,351.7	196,998.1	197,919.9	199,281.4	197,565.7	209,487.7	233,281.4	258,093.6	298,282.6	333,829.6	362,524.7	410,062.5	411,922.1
Canada	5,245.7	6,547.1	8,722.3	8,923.4	8,219.9	8,696.1	9,108.9	9,404.6	10,479.5	10,380.3	11,712.2	12,310.8	14,319.8	17,250.2	15,036.2
Mexico	2,244.8	2,465.3	3,446.8	3,714.1	3,653.4	3,991.4	4,310.0	4,476.0	4,949.0	5,652.5	7,259.7	8,713.7	9,621.4	10,356.3	10,085.6
European Union	102,962.5	128,435.3	149,583.3	153,985.9	152,586.7	149,503.0	147,311.5	157,246.0	163,639.9	164,774.6	179,282.7	190,095.1	204,825.5	224,526.0	232,529.1
Germany	42,242.1	46,641.3	47,520.4	48,307.6	48,473.7	46,199.6	40,848.8	41,553.4	38,974.7	39,627.1	42,618.6	43,657.5	46,253.6	51,644.5	56,660.9
France	14,456.3	20,157.7	23,904.0	24,565.1	23,379.8	24,107.4	23,139.5	25,338.0	30,120.7	28,020.2	33,516.5	35,101.8	37,716.0	38,735.8	44,170.5
United Kingdom	22,219.8	26,472.9	33,620.2	35,045.2	34,838.2	32,601.1	32,256.5	34,796.0	34,852.3	35,489.1	37,456.9	39,531.0	41,177.9	44,599.7	42,684.4
Italy	9,159.9	13,289.1	17,130.2	17,336.8	16,534.2	16,273.0	18,436.3	19,856.6	20,721.2	19,901.8	19,381.6	20,293.9	20,928.2	21,268.2	20,889.7
Other European Union	14,884.3	21,874.3	27,408.5	28,731.2	29,360.9	30,321.9	32,630.4	35,701.4	38,971.1	41,736.5	46,309.3	51,511.0	58,749.8	68,277.9	68,123.6
Brazil	27,723.2	25,214.0	31,586.7	30,503.7	29,756.3	36,504.4	36,791.8	31,144.4	27,258.8	27,859.3	30,553.2	28,222.8	25,864.0	22,087.4	21,699.8
Argentina	2,519.4	2,581.4	1,667.9	1,596.6	1,833.4	2,302.0	1,676.7	1,814.8	1,626.6	1,660.5	1,995.0	2,092.6	1,808.7	1,800.0	1,533.7
Chile	400.9	371.4	411.2	391.3	435.0	481.3	578.7	529.1	505.4	457.2	462.6	487.1	422.9	470.6	463.1
Peru	539.7	297.1	257.1	296.9	272.4	279.0	268.5	242.4	241.7	247.9	274.6	252.4	249.4	262.3	260.0

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Costa Rica	54.1	54.4	58.8	57.9	53.2	58.9	86.8	93.2	77.6	63.9	63.6	66.0	58.7	59.3	57.8
Japan	52,665.8	88,594.4	113,472.7	119,943.2	128,796.1	120,226.5	116,200.0	117,396.4	128,929.7	144,935.4	162,855.6	147,075.8	144,016.5	148,668.4	138,404.3
China	3,191.3	6,034.4	8,200.1	8,114.0	9,365.4	11,127.3	15,296.4	15,995.0	15,406.6	21,589.0	27,730.4	34,018.0	47,309.5	59,869.1	67,855.8
South Korea	2,291.1	3,892.1	8,129.6	9,545.1	9,963.1	10,297.2	12,151.5	15,053.3	18,322.5	19,266.1	23,689.8	26,550.9	37,958.9	50,207.3	52,599.4
Australia	1,770.3	2,035.6	2,119.9	2,039.7	2,244.2	2,509.4	2,546.5	2,690.6	2,741.8	2,817.7	3,258.9	3,447.8	3,504.3	3,903.7	3,765.1
Taiwan	2,507.2	4,249.9	6,311.4	6,772.6	7,182.4	7,517.7	8,315.6	9,372.8	11,481.8	13,863.9	16,684.7	18,545.5	21,300.8	25,385.5	21,804.1
Singapore	2,294.9	3,703.0	6,136.7	6,626.0	6,861.6	7,706.4	9,006.9	10,478.2	12,336.4	13,001.6	14,107.2	14,431.5	18,016.2	20,525.8	18,857.4
Hong Kong	1,790.1	1,603.9	2,523.8	2,407.9	2,243.3	2,401.3	2,281.7	2,366.5	2,402.4	2,230.4	2,197.8	2,417.6	2,428.8	2,659.4	2,443.9
India	541.7	807.0	1,362.6	1,270.8	1,618.1	1,796.7	1,995.7	2,496.5	2,386.6	2,657.9	3,055.1	3,117.8	3,540.3	3,660.9	3,674.8
Malaysia	423.8	708.6	1,483.8	1,910.1	2,636.8	3,245.7	3,807.2	4,799.7	5,760.0	7,558.0	8,574.0	8,450.5	10,578.9	14,613.3	15,168.0
Thailand	452.1	536.7	1,059.5	2,125.4	3,928.1	4,104.7	1,338.4	1,374.6	1,832.3	1,983.0	2,489.4	2,392.4	2,924.8	3,769.3	3,786.4
Philippines	577.7	379.7	833.3	1,189.1	1,430.7	1,428.7	1,436.5	1,482.6	1,963.1	2,155.4	2,340.8	2,280.6	2,559.6	2,890.1	3,122.1
Indonesia	149.5	221.2	298.4	573.7	793.4	932.1	842.9	1,382.4	1,309.6	1,606.0	2,251.0	3,612.3	2,756.4	3,028.4	3,432.1
South Africa	990.4	951.2	1,027.1	1,025.1	995.2	1,047.4	1,032.2	1,077.7	1,126.7	1,122.8	1,161.4	1,089.1	1,082.7	1,116.7	1,149.6
Exports all countries	384,075.2	515,981.3	825,271.3	937,975.1	1,025,442.3	1,123,449.2	1,163,379.6	1,333,963.5	1,603,027.4	1,785,662.0	2,106,342.0	2,293,481.4	2,610,571.5	3,130,774.5	2,959,955.9
United States	114,665.8	117,725.8	194,396.3	218,236.7	235,472.6	251,566.2	249,052.7	280,962.0	318,716.7	362,385.8	428,848.2	463,723.6	505,144.0	538,819.7	511,219.9
Canada	8,100.9	12,213.7	15,508.9	18,471.8	21,161.9	22,238.0	21,394.1	26,004.7	32,661.3	37,659.6	43,132.5	48,078.6	53,731.3	74,801.5	65,247.1
Mexico	425.5	3,197.7	2,415.3	1,962.8	2,381.3	13,615.4	15,141.4	21,040.7	27,065.8	34,326.7	44,694.0	58,009.1	70,445.3	92,822.3	81,407.8
European Union	156,060.3	206,069.8	308,135.5	353,148.0	377,380.6	399,455.7	412,452.4	452,597.5	541,282.0	591,675.5	700,661.9	785,546.6	868,623.7	1,000,328.5	984,276.3
Germany	40,321.0	58,576.8	86,682.3	92,863.5	101,037.5	106,032.4	100,934.1	112,589.5	123,325.3	131,495.4	152,995.0	177,386.5	198,194.5	223,542.1	220,806.7
France	23,467.1	30,963.6	49,549.6	55,155.6	65,422.6	69,004.8	70,427.9	75,556.4	91,572.8	90,775.7	109,211.2	124,973.5	135,812.2	157,345.2	156,700.3
United Kingdom	40,297.3	48,117.1	68,384.8	80,211.1	81,180.1	81,094.1	86,720.2	93,792.4	115,952.8	131,077.4	147,067.4	156,339.9	160,102.7	184,430.7	180,583.8
Italy	11,541.1	17,026.5	23,979.8	28,788.1	28,709.6	31,780.4	32,756.3	33,678.5	38,668.8	40,895.1	42,043.0	47,107.4	50,166.9	58,149.9	57,734.5
Other European Union	40,433.8	51,386.0	79,539.0	96,129.7	101,030.8	111,543.9	121,613.9	136,980.8	171,762.4	197,431.9	249,345.3	279,739.2	324,347.4	376,860.6	368,451.1
Brazil	1,845.2	1,913.9	4,083.9	3,559.4	3,096.4	3,006.4	2,753.2	2,767.8	2,785.6	3,616.1	4,655.7	6,673.9	8,890.9	14,487.3	13,585.7
Argentina	604.2	324.9	332.9	368.5	446.4	470.0	489.1	563.7	779.7	867.9	1,074.0	1,116.2	1,212.1	1,388.7	1,383.1
Chile	15.7	8.2	23.8	106.1	55.8	74.5	75.8	73.9	85.1	108.9	135.3	204.4	227.6	275.5	274.8
Peru	17.3	16.3	17.2	14.6	12.3	21.0	18.4	36.7	39.4	66.3	63.5	105.1	82.7	94.3	83.3
Costa Rica	30.3	25.5	30.2	36.7	48.7	58.9	65.0	51.1	55.4	59.1	293.8	940.5	410.2	521.1	521.3
Japan	53,067.1	104,783.7	148,488.9	158,024.9	172,977.3	181,206.7	180,264.5	191,608.1	217,312.9	216,804.2	243,033.8	241,754.5	267,742.4	314,862.5	285,755.5
China	1,085.9	1,348.2	4,856.4	10,137.8	12,177.7	17,315.3	19,364.1	26,396.2	35,933.9	44,548.9	58,651.7	73,387.9	91,669.8	132,700.7	130,868.2
South Korea	3,930.8	8,139.9	21,481.6	23,220.0	27,173.3	30,594.0	31,188.1	38,305.9	53,867.4	59,547.1	75,558.3	84,107.9	117,705.6	162,136.6	142,933.0
Australia	1,886.1	1,448.2	2,532.3	2,956.8	3,639.5	3,981.9	4,347.0	5,264.4	6,462.0	7,481.6	8,200.3	7,822.6	8,637.2	9,501.9	9,414.6
Taiwan	5,976.4	9,305.8	21,314.6	22,808.4	25,809.1	30,057.9	33,601.9	40,265.6	53,914.0	63,426.6	78,181.1	86,508.1	113,042.2	153,464.1	138,516.7
Singapore	6,010.1	9,627.5	26,273.0	32,554.4	37,032.8	43,237.5	53,104.8	75,443.5	98,973.0	113,875.9	127,500.5	123,995.2	145,257.7	184,471.4	167,556.0
Hong Kong	9,347.7	14,268.5	28,552.9	34,291.8	38,708.7	46,206.0	49,577.6	60,361.4	75,997.5	80,425.7	92,318.4	92,281.3	102,091.6	137,300.6	133,561.3
India	422.8	367.4	603.5	1,113.0	1,189.7	1,346.4	1,492.7	1,817.2	2,496.0	3,116.7	3,254.6	2,968.0	3,692.2	4,275.0	4,291.2
Malaysia	1,899.6	4,561.2	12,227.6	17,027.3	22,167.9	27,122.3	33,745.8	45,836.6	56,532.1	65,285.0	72,113.0	72,345.4	86,546.0	105,761.6	95,559.6
Thailand	161.0	321.0	4,080.4	6,130.0	8,458.1	10,972.3	11,858.9	15,648.8	19,504.0	22,372.6	25,096.0	24,431.7	29,733.1	42,365.8	39,251.6
Philippines	164.0	427.9	2,370.1	1,132.5	1,564.3	2,096.6	2,663.7	3,428.7	4,932.4	17,549.5	27,327.5	35,757.8	40,693.4	46,313.9	43,619.5
Indonesia	174.3	325.0	356.6	480.2	841.6	1,885.1	2,650.3	3,950.2	4,188.1	5,611.8	5,578.3	4,841.8	5,268.6	8,430.9	8,006.1
South Africa	97.3	352.5	187.9	173.0	211.5	487.4	550.7	694.1	866.4	994.1	1,517.7	1,688.8	1,944.4	2,273.6	2,261.8
Percent															
Import penetration all countries	45.3	44.3	55.1	60.2	61.3	73.2	75.3	81.6	88.3	91.7	94.4	97.4	100.0	103.3	99.7
United States	22.8	32.4	39.0	42.0	45.6	50.7	51.9	56.1	56.0	58.2	59.7	59.8	60.7	59.9	56.4
Canada	85.3	87.5	86.7	90.0	97.5	92.4	87.0	88.7	91.7	100.5	120.3	116.4	125.8	155.3	140.3
Mexico	47.5	48.6	52.8	51.7	63.2	114.3	121.3	143.1	138.8	153.2	156.6	169.3	190.6	249.1	218.6
European Union	67.2	62.3	84.9	97.3	99.8	104.7	107.6	110.6	124.7	131.3	138.6	144.5	144.8	142.4	138.5
Germany	44.1	57.6	95.3	102.7	99.9	108.8	114.3	118.6	133.1	141.1	145.0	167.8	174.7	154.8	148.1
France	63.6	49.5	68.9	76.5	84.7	86.5	87.8	91.7	101.5	97.8	101.7	104.8	103.1	102.9	95.5
United Kingdom	76.3	69.6	79.1	93.6	94.4	91.0	104.0	108.4	130.2	139.2	146.5	144.9	136.6	139.5	137.0
Italy	54.4	44.4	63.6	74.2	79.0	81.9	71.2	69.4	70.0	80.0	81.8	90.6	96.4	104.4	103.9
Other European Union	103.3	83.0	104.8	124.2	126.6	137.5	138.2	140.4	159.0	166.6	179.9	179.2	176.9	173.3	173.4
Brazil	9.5	7.6	12.5	15.6	17.2	14.4	15.8	20.4	29.7	34.1	37.3	40.0	37.7	49.3	43.4

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Percent														
Argentina.....	36.1	25.3	30.2	32.3	44.5	53.9	60.9	64.7	65.2	69.2	67.9	70.2	78.3	84.5	84.2
Chile.....	55.3	36.7	46.5	56.5	58.9	63.9	59.0	65.8	78.9	82.3	88.8	90.3	89.3	89.6	82.4
Peru.....	20.6	24.1	40.3	44.0	49.5	54.2	51.0	66.0	81.8	81.7	81.3	78.8	66.1	64.1	59.7
Costa Rica.....	69.0	40.9	49.3	51.8	68.8	73.3	68.0	70.5	71.6	76.1	138.8	217.1	127.6	150.3	151.0
Japan.....	18.2	15.9	20.6	22.7	21.6	25.7	28.7	35.0	40.3	39.2	37.7	42.3	53.9	67.9	70.2
China.....	39.4	57.4	39.7	45.6	48.0	55.1	56.5	55.0	66.8	57.0	58.7	60.7	56.4	64.7	58.8
South Korea.....	68.7	72.5	84.3	76.1	83.3	87.9	77.9	75.1	87.2	85.5	84.0	84.4	81.7	84.0	72.7
Australia.....	68.7	71.7	86.5	88.4	88.6	83.9	79.8	90.8	99.0	107.6	94.6	84.8	89.7	79.0	71.0
Taiwan.....	100.4	64.6	92.6	98.0	100.6	110.0	112.3	112.4	110.7	120.6	123.4	121.6	133.1	159.0	165.2
Singapore.....	127.0	97.8	169.6	184.5	195.0	196.0	200.2	272.5	304.9	353.1	409.2	445.7	468.0	559.4	544.9
Hong Kong.....	180.1	266.4	373.7	384.3	390.5	356.1	447.1	639.9	577.1	610.2	679.3	617.9	722.0	752.1	699.9
India.....	116.6	66.5	61.1	58.8	37.2	36.0	44.5	41.6	45.3	47.4	45.1	48.0	47.0	58.2	56.5
Malaysia.....	193.9	227.5	214.3	210.4	187.8	211.5	225.1	200.0	194.0	208.9	215.6	221.2	221.0	182.0	156.3
Thailand.....	72.0	67.9	110.0	111.3	116.3	127.0	151.0	223.2	202.7	236.7	211.1	222.3	228.0	266.5	236.1
Philippines.....	59.1	59.7	101.3	61.8	62.3	73.4	81.7	89.5	99.1	278.6	372.4	482.0	623.5	577.2	473.2
Indonesia.....	149.2	90.4	69.8	70.1	76.2	84.9	91.2	98.2	87.8	98.7	87.4	45.1	70.1	115.3	91.6
South Africa.....	55.9	47.0	50.7	56.7	72.6	78.6	79.5	82.9	90.2	81.9	86.0	81.2	75.0	72.5	61.3
	Millions of 1997 U.S. dollars														
Imports all countries.....	364,643.8	506,275.6	821,285.2	934,802.1	1,027,633.0	1,127,062.8	1,183,549.6	1,358,988.6	1,636,114.0	1,835,693.1	2,171,193.4	2,407,850.4	2,771,445.0	3,328,292.6	3,166,288.0
United States.....	47,579.6	115,379.4	154,817.2	164,399.3	173,617.0	206,561.4	226,963.6	259,872.6	306,613.8	335,388.2	403,156.6	469,970.0	547,115.6	667,309.5	560,795.9
Canada.....	16,853.6	21,505.6	32,468.6	35,411.5	38,412.5	40,696.9	41,003.9	47,838.3	56,425.2	61,609.5	73,711.4	78,228.7	90,499.7	98,680.8	97,027.5
Mexico.....	5,670.9	5,381.6	11,076.8	12,840.2	16,318.8	21,453.5	22,428.5	26,975.2	24,460.4	30,445.8	39,547.8	50,598.5	62,940.5	74,421.2	71,949.9
European Union.....	165,404.5	196,638.2	347,931.5	407,877.7	437,749.0	447,175.9	435,679.9	477,546.3	563,613.8	626,483.9	739,518.8	857,731.2	974,801.2	1,096,162.1	1,082,441.1
Germany.....	34,525.8	43,026.5	72,328.2	93,044.4	102,692.0	106,857.3	101,687.1	113,792.7	131,342.7	137,800.1	154,871.2	178,340.2	202,738.3	229,179.0	225,453.3
France.....	26,101.2	31,444.6	60,620.7	67,426.1	81,596.3	76,219.6	72,821.1	77,233.2	85,065.8	92,884.8	108,397.9	129,086.5	140,687.5	156,442.3	155,271.4
United Kingdom.....	33,878.2	39,157.3	62,618.2	68,767.8	66,229.3	70,632.2	74,492.5	81,519.3	96,938.8	113,121.9	136,463.7	153,364.1	171,719.5	198,926.4	193,630.4
Italy.....	16,073.7	20,122.7	34,919.3	42,391.9	44,670.1	45,455.2	38,872.2	41,585.7	47,114.8	51,456.0	57,116.4	67,285.4	74,447.0	83,308.5	83,519.9
Other European Union.....	54,825.5	62,887.1	117,445.1	136,247.5	142,561.3	148,011.7	147,806.9	163,415.5	203,151.7	231,221.1	282,669.6	329,655.0	385,208.9	428,305.9	424,566.2
Brazil.....	5,117.9	3,439.9	7,535.8	8,467.1	9,895.8	8,854.4	9,809.7	11,695.5	17,599.3	21,409.8	26,704.1	26,962.6	26,567.5	29,562.2	27,969.4
Argentina.....	4,144.9	1,361.0	1,371.2	1,593.7	2,996.5	5,642.6	6,313.3	8,084.2	6,464.9	7,481.7	9,871.7	11,140.0	11,027.3	11,978.3	11,459.1
Chile.....	1,143.0	570.9	1,671.6	2,037.2	2,241.3	2,885.2	2,403.0	2,878.6	3,948.2	4,377.7	5,130.4	6,037.9	5,140.8	5,851.2	5,597.4
Peru.....	585.4	453.2	466.6	538.7	648.8	785.4	818.9	1,204.1	1,993.6	2,130.7	2,482.1	2,505.9	2,133.8	2,314.8	2,294.6
Costa Rica.....	177.3	95.8	163.6	178.6	235.3	266.2	340.8	480.2	350.6	321.1	478.8	1,374.8	1,009.1	1,034.7	1,094.2
Japan.....	16,311.2	20,754.5	39,071.1	46,954.0	48,973.4	52,514.0	58,394.7	72,521.6	99,959.3	115,543.2	125,874.1	123,484.1	152,397.4	196,200.0	187,650.6
China.....	3,216.9	15,952.7	15,110.1	16,034.1	20,328.3	28,877.1	39,683.0	46,458.3	49,133.4	54,053.1	69,029.6	87,091.1	107,129.8	151,058.5	163,028.1
South Korea.....	4,921.2	9,086.5	19,544.3	21,030.5	24,864.0	25,329.1	27,187.6	33,698.1	44,630.1	51,828.4	56,670.7	44,769.5	69,687.7	97,830.6	92,631.2
Australia.....	6,303.9	11,589.8	16,002.2	17,182.5	17,076.4	17,355.3	15,773.6	19,679.7	23,280.9	25,994.6	26,972.1	28,542.9	32,863.4	37,493.7	35,994.1
Taiwan.....	4,959.1	6,806.5	17,921.5	20,367.0	25,040.8	30,010.6	32,665.5	36,148.7	47,122.7	52,049.2	68,873.0	75,176.2	94,010.0	121,742.1	115,317.6
Singapore.....	7,842.8	11,661.1	24,353.8	30,249.3	35,132.1	40,311.1	49,947.1	64,739.6	83,105.5	96,711.5	106,735.4	100,555.5	115,278.8	145,443.4	137,476.7
Hong Kong.....	8,588.0	13,119.1	25,898.2	33,485.7	39,940.3	49,755.2	51,269.7	59,728.3	77,976.4	84,522.0	100,029.7	101,626.3	107,592.5	145,947.0	142,959.6
India.....	4,097.7	6,087.4	5,199.7	3,040.2	3,493.5	5,526.0	5,647.6	6,824.8	7,271.1	8,077.2	8,958.3	9,333.4	13,957.8	13,976.1	
Malaysia.....	3,261.1	5,724.0	11,749.5	15,936.7	19,819.3	21,736.7	26,646.8	41,576.3	55,033.2	58,441.2	67,293.0	67,813.6	80,368.6	105,002.4	100,524.2
Thailand.....	2,390.1	2,586.6	6,926.0	10,417.4	11,394.0	14,735.0	14,761.4	20,195.7	27,556.7	29,821.8	33,250.2	28,852.3	34,256.1	45,514.3	44,045.8
Philippines.....	2,471.7	1,207.6	4,038.7	3,284.4	3,373.8	4,275.5	5,983.3	6,254.2	5,820.8	20,496.9	29,848.1	34,869.0	40,805.1	43,083.0	38,213.0
Indonesia.....	2,855.5	2,234.7	2,640.2	4,125.8	5,451.3	6,415.5	6,258.3	4,101.5	5,086.2	7,710.1	8,904.1	3,811.3	3,019.0	5,520.0	5,202.8
South Africa.....	4,241.5	3,500.0	3,687.5	3,880.6	5,799.6	5,475.2	5,871.1	6,795.3	8,643.3	8,835.2	9,758.1	13,006.4	12,172.9	13,273.0	12,538.6
Apparent consumption all countries.....	805,524.2	1,141,948.2	1,489,629.8	1,552,944.3	1,676,862.8	1,539,191.8	1,572,004.2	1,664,847.8	1,852,040.7	2,001,286.4	2,299,012.9	2,473,299.5	2,770,326.1	3,220,661.1	3,176,254.1
United States.....	208,490.8	355,729.3	396,835.6	391,815.0	380,834.0	407,522.2	437,109.1	463,673.9	547,817.5	576,064.8	675,395.7	786,301.6	901,212.3	1,113,724.8	994,061.2
Canada.....	19,757.4	24,589.4	37,441.7	39,363.7	39,409.7	44,026.0	47,111.9	53,956.8	61,512.8	61,283.2	61,279.3	67,180.9	71,957.7	63,549.9	69,143.0
Mexico.....	11,936.7	11,078.8	20,987.8	24,859.3	25,807.0	18,765.5	18,497.8	18,851.4	17,621.8	19,874.0	25,260.3	29,891.0	33,029.2	29,873.3	32,910.5
European Union.....	246,300.1	315,531.1	410,019.1	419,136.7	438,488.3	427,041.0	405,072.0	431,754.3	452,022.2	477,105.9	533,581.2	593,488.0	673,149.6	769,757.4	781,452.1
Germany.....	78,220.7	74,663.0	75,879.8	90,608.5	102,782.3	98,204.5	88,989.7	95,949.3	98,707.1	97,681.1	106,788.3	106,268.5	116,034.5	148,054.7	152,270.3
France.....	41,015.2	63,481.0	88,041.8	88,152.6	96,396.3	88,107.0	82,903.6	84,246.9	83,806.3	94,995.2	106,628.5	123,158.1	136,432.7	162,633.0	162,633.0
United Kingdom.....	44,423.5	56,277.8	79,143.6	73,496.2	70,188.8	77,614.5	71,633.7	75,225.2	74,452.7	81,249.4	93,129.5	105,847.6	125,670.6	142,649.2	141,377.4

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Millions of 1997 U.S. dollars														
Italy.....	29,561.1	45,342.3	54,895.8	57,167.4	56,515.0	55,497.9	54,562.0	59,949.3	67,322.8	64,354.3	69,869.3	74,263.1	77,253.6	79,835.6	80,369.8
Other European Union.....	53,079.6	75,767.1	112,058.2	109,712.1	112,606.0	107,617.2	106,983.2	116,383.6	127,733.2	138,825.9	157,165.5	183,950.7	217,758.3	247,129.9	244,801.7
Brazil.....	53,753.2	45,189.2	60,190.0	54,175.4	57,541.6	61,523.4	61,914.5	57,351.3	59,337.9	62,866.7	71,654.5	67,359.2	70,571.2	59,959.0	64,398.9
Argentina.....	11,496.7	5,379.1	4,546.5	4,941.8	6,730.0	10,472.2	10,375.3	12,490.2	9,917.6	10,812.6	14,546.0	15,878.7	14,081.1	14,177.7	13,604.0
Chile.....	2,065.5	1,555.6	3,593.8	3,608.6	3,806.2	4,514.1	4,072.7	4,377.5	5,006.4	5,318.1	5,778.1	6,685.0	5,757.3	6,527.2	6,790.8
Peru.....	2,842.6	1,882.4	1,159.1	1,223.7	1,310.2	1,449.6	1,605.1	1,825.2	2,437.6	2,608.0	3,054.2	3,178.6	3,230.2	3,608.9	3,845.0
Costa Rica.....	257.2	234.5	332.1	344.9	341.9	363.0	501.3	681.0	489.6	422.1	345.1	633.3	790.7	688.4	724.5
Japan.....	89,564.0	130,699.9	189,470.0	206,782.0	226,368.1	204,243.5	203,437.6	207,398.1	248,059.3	294,955.2	334,320.1	292,157.2	282,661.4	288,786.2	267,286.1
China.....	8,158.3	27,779.8	38,024.2	35,170.9	42,369.9	52,412.8	70,256.7	84,457.2	73,604.7	94,805.6	117,597.5	143,548.2	189,827.0	233,635.9	277,456.3
South Korea.....	7,163.6	12,533.5	23,195.4	27,640.3	29,856.7	28,806.1	34,888.4	44,868.7	51,164.5	60,592.8	67,499.1	53,026.1	85,342.6	116,450.9	127,365.4
Australia.....	9,175.5	16,166.2	18,496.3	19,436.4	19,284.0	20,696.9	19,764.8	21,674.1	23,508.3	24,158.8	28,498.8	33,660.1	36,646.5	47,460.6	50,669.1
Taiwan.....	4,937.8	10,543.7	19,348.2	20,775.4	24,898.4	27,283.5	29,095.6	32,149.6	42,554.4	43,151.0	55,808.8	61,841.8	70,630.2	76,581.9	69,804.1
Singapore.....	6,174.4	11,927.0	14,356.1	16,395.5	18,018.8	20,565.6	24,946.0	23,761.7	27,259.8	27,387.0	26,082.6	22,561.7	24,634.1	25,997.9	25,228.3
Hong Kong.....	4,769.2	4,925.1	6,930.2	8,713.3	10,228.7	13,973.5	11,467.2	9,334.4	13,511.5	13,850.6	14,725.4	16,448.1	14,903.0	19,405.0	20,425.5
India.....	3,517.5	4,953.9	9,969.3	8,851.0	8,174.3	9,710.8	12,428.9	13,574.4	15,077.5	15,345.5	17,919.9	18,677.0	19,853.8	23,977.1	24,747.7
Malaysia.....	1,681.6	2,516.3	5,482.4	7,573.5	10,551.4	10,276.8	11,837.9	20,789.7	28,363.2	27,972.4	31,213.7	30,651.6	36,360.4	57,705.7	64,335.3
Thailand.....	3,318.8	3,812.0	6,299.5	9,358.0	9,796.3	11,598.5	9,775.5	9,050.2	13,593.4	12,600.8	15,753.2	12,980.7	15,026.4	17,080.9	18,655.8
Philippines.....	4,180.7	2,024.3	3,987.0	5,316.8	5,419.9	5,823.6	7,321.7	6,989.7	8,596.4	7,356.8	8,016.1	7,234.0	6,544.3	7,464.2	8,075.6
Indonesia.....	1,914.6	2,472.6	3,784.5	5,886.0	7,158.5	7,553.3	6,860.9	4,178.3	5,793.0	7,808.5	10,186.0	8,442.3	4,309.4	4,788.1	5,678.8
South Africa.....	7,591.4	7,443.9	7,268.0	6,843.4	7,991.9	6,968.9	7,388.4	8,199.0	9,587.3	10,782.4	11,350.3	16,010.7	16,223.9	18,311.3	20,453.8
Aerospace															
Production all countries.....	141,854.3	180,072.7	227,003.6	238,704.5	242,216.2	238,013.1	220,998.9	203,832.9	208,046.6	225,204.0	251,036.4	281,177.9	294,257.7	292,353.4	320,530.4
United States.....	69,984.7	98,131.4	115,720.9	122,897.2	118,661.6	115,296.8	104,167.6	91,682.4	92,341.7	100,999.6	116,173.6	141,322.0	147,217.2	142,364.1	160,577.4
Canada.....	2,651.1	2,562.2	4,686.8	5,239.6	4,753.8	4,318.5	4,181.0	4,377.6	5,494.5	6,290.6	6,980.4	7,147.3	7,945.3	9,143.7	10,094.7
Mexico.....	35.6	38.2	274.3	111.4	95.8	145.3	148.1	127.1	529.9	260.7	171.8	194.8	421.7	370.2	397.5
European Union.....	37,034.2	48,443.3	62,768.1	65,642.4	65,875.3	67,466.1	60,839.5	61,873.6	62,886.9	66,553.3	69,798.4	76,866.7	83,739.1	90,732.6	96,873.0
Germany.....	8,407.2	9,624.4	11,660.4	12,334.4	12,194.5	12,009.4	9,675.4	9,779.0	8,564.5	10,632.5	13,085.4	13,749.3	17,733.8	17,733.8	18,488.1
France.....	10,339.3	16,966.6	21,973.6	22,747.2	23,763.0	24,405.7	23,731.5	24,447.4	26,713.7	27,209.0	26,376.9	29,803.3	34,152.4	37,302.1	43,349.4
United Kingdom.....	12,792.1	13,529.6	18,803.7	19,984.4	20,167.2	20,545.8	16,637.3	17,061.9	16,382.4	18,276.5	19,571.5	22,469.6	21,751.4	23,145.5	22,552.5
Italy.....	3,029.8	4,469.4	5,195.2	4,728.8	5,229.0	4,804.8	5,640.1	5,942.6	5,201.6	5,317.3	4,534.8	4,587.5	5,181.4	5,377.5	
Other European Union.....	2,465.7	3,853.3	5,105.5	5,381.3	5,021.8	5,276.3	4,990.5	4,945.3	5,283.7	5,233.7	5,447.3	6,309.7	6,987.5	7,369.8	7,105.6
Brazil.....	21,183.9	14,370.1	23,107.9	22,919.5	24,589.6	27,368.5	23,878.0	20,535.2	20,427.0	21,018.7	23,707.8	19,322.0	16,780.2	9,303.3	8,896.4
Argentina.....	158.4	65.6	50.2	53.5	58.6	87.7	57.3	61.0	44.7	55.1	62.7	73.7	54.8	32.7	31.9
Chile.....	49.2	20.1	62.7	42.7	34.7	57.0	54.7	38.4	42.5	39.3	34.4	28.7	22.9	31.7	29.7
Peru.....	0.6	0.3	1.5	0.2	0.3	0.2	0.3	0.7	0.7	0.6	0.6	0.7	0.2	0.3	0.3
Costa Rica.....	6.2	5.1	10.7	9.0	11.1	12.0	9.1	11.7	14.2	17.4	9.6	9.8	7.2	6.8	
Japan.....	2,550.1	4,279.3	4,849.3	4,936.2	5,079.6	5,531.9	5,822.1	6,170.7	6,397.6	6,565.7	7,464.2	7,521.3	7,319.5	7,073.9	7,338.4
China.....	1,268.0	2,645.8	3,433.3	3,899.7	4,509.4	6,314.2	8,240.6	8,235.2	9,419.9	12,566.8	14,643.1	16,098.5	18,163.4	19,076.5	20,850.6
South Korea.....	19.6	53.3	127.5	213.8	609.1	424.5	467.5	736.1	649.1	877.6	1,139.2	2,475.1	2,017.5	2,535.3	3,538.0
Australia.....	679.2	746.2	1,028.3	1,137.1	1,122.2	1,173.6	1,080.4	984.1	1,000.8	1,057.0	1,150.1	1,390.4	1,342.3	1,701.6	1,530.0
Taiwan.....	413.0	516.7	632.6	509.6	499.2	434.9	380.3	429.0	505.1	509.4	786.5	719.8	619.2	599.7	528.3
Singapore.....	229.0	595.3	562.3	666.3	672.4	939.5	971.6	1,048.4	1,053.5	1,024.1	992.4	979.8	982.5	937.7	864.8
Hong Kong.....	123.2	216.5	275.0	289.6	287.2	335.5	333.4	336.5	331.0	335.9	371.4	362.0	533.7	487.9	447.3
India.....	62.8	101.0	197.9	134.3	127.0	239.2	275.5	266.8	290.7	222.6	288.5	208.7	214.9	205.3	212.7
Malaysia.....	2.8	3.6	6.3	8.5	10.7	11.9	10.4	7.2	8.5	7.6	14.7	8.8	8.9	10.3	10.7
Thailand.....	21.1	21.7	56.5	63.7	94.1	115.5	120.8	68.9	81.0	83.6	62.2	47.5	59.5	78.0	72.6
Philippines.....	59.1	5.1	6.7	8.6	8.9	7.3	9.8	10.7	12.0	7.6	6.7	6.6	6.9	8.1	9.2
Indonesia.....	29.0	32.8	88.3	36.4	56.3	57.5	60.6	33.0	82.6	142.2	63.5	37.6	52.7	65.0	57.7
South Africa.....	439.6	330.4	549.5	498.0	481.9	451.5	446.7	462.2	562.3	575.3	555.0	512.9	547.2	613.0	630.3
Value added all countries.....	53,578.6	73,380.2	91,392.4	98,449.6	100,839.3	93,567.2	86,242.0	79,696.6	79,425.8	83,713.1	92,683.0	99,510.7	106,688.0	107,391.2	115,968.1
United States.....	24,740.1	41,439.7	48,009.6	48,781.3	49,186.8	43,980.5	39,895.2	35,746.7	35,878.8	39,986.4	42,621.4	49,380.0	55,880.6	58,501.4	63,473.3
Canada.....	1,299.5	1,421.8	2,233.7	2,543.8	2,225.0	2,385.4	2,336.7	2,390.0	2,902.3	3,092.9	3,443.6	3,229.5	3,544.6	4,079.2	4,501.3
Mexico.....	27.4	28.5	194.4	80.0	67.6	100.9	104.0	88.8	366.0	179.9	118.4	134.3	289.2	222.7	238.8

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Millions of 1997 U.S. dollars														
European Union	13,718.1	16,597.4	22,691.2	24,875.9	22,976.9	20,604.4	17,912.0	19,718.3	19,977.6	17,762.9	21,221.4	23,466.3	24,796.5	25,933.2	28,445.3
Germany	3,646.0	4,188.6	5,069.3	5,359.3	5,300.4	4,856.9	3,986.6	3,397.2	2,891.8	3,729.1	4,504.6	5,147.8	6,312.8	6,090.2	7,241.1
France	2,461.7	3,564.1	4,537.8	4,876.6	4,146.7	4,381.2	3,375.3	5,059.6	6,988.9	4,406.1	6,337.8	5,983.5	6,015.7	6,514.6	7,987.9
United Kingdom	5,626.5	5,752.4	8,975.5	10,361.6	9,682.6	7,389.6	6,370.9	7,046.0	6,023.2	5,802.2	6,332.3	7,147.3	7,310.2	7,854.8	7,631.9
Italy	900.9	1,437.5	2,087.7	2,068.4	1,836.9	1,706.3	2,038.1	2,178.3	2,058.2	1,743.3	1,885.6	2,439.7	2,281.9	2,588.4	2,690.1
Other European Union	1,083.0	1,654.8	2,020.9	2,210.1	2,010.3	2,270.5	2,141.1	2,037.2	2,015.4	2,082.1	2,161.1	2,748.0	2,876.0	2,885.2	2,894.2
Brazil	8,147.7	5,450.7	8,868.8	12,005.4	12,880.3	17,510.4	13,902.2	11,751.8	11,487.4	11,820.1	13,332.4	10,866.0	9,436.6	5,231.9	5,014.1
Argentina	65.0	38.8	26.8	29.4	29.1	43.6	12.4	12.8	8.6	11.4	11.5	14.4	11.7	5.4	5.2
Chile	42.0	19.3	29.9	37.6	27.5	22.4	38.5	10.9	10.7	5.6	22.7	19.0	15.1	21.0	19.7
Peru	0.2	0.1	0.6	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Costa Rica	4.2	3.3	6.8	5.7	6.4	7.1	5.4	6.6	7.5	6.9	6.7	5.1	5.2	3.8	3.6
Japan	1,163.4	1,955.7	1,743.6	1,738.9	1,882.0	2,163.7	2,450.7	2,439.1	2,648.8	2,781.5	2,974.1	3,132.3	3,139.3	3,047.3	3,164.9
China	552.0	928.3	892.3	1,023.7	1,131.9	1,622.7	2,212.7	1,952.6	2,295.9	3,083.8	3,572.5	4,128.9	4,651.2	4,884.5	5,338.1
South Korea	10.4	23.6	52.2	106.5	274.4	117.2	152.8	319.3	242.4	266.8	294.9	682.8	577.4	697.8	970.4
Australia	316.7	368.5	412.7	344.2	434.9	474.2	488.7	449.3	436.7	506.8	554.2	698.3	669.1	847.6	763.2
Taiwan	126.7	142.3	193.9	178.2	188.6	165.3	135.7	147.9	164.3	197.4	304.8	278.3	234.2	224.5	213.9
Singapore	176.8	468.5	335.7	354.3	352.2	510.9	560.7	601.1	593.6	585.9	749.1	577.7	573.5	544.8	504.4
Hong Kong	95.0	140.1	189.3	215.6	227.4	268.5	270.7	264.1	256.2	249.8	276.3	242.6	253.0	266.2	243.6
India	13.4	19.9	33.3	28.1	42.5	60.7	61.4	65.1	91.8	74.3	97.8	62.0	63.8	60.9	63.4
Malaysia	2.2	3.2	3.0	5.4	4.5	5.1	4.8	4.6	6.0	5.2	6.5	4.9	4.9	5.7	5.9
Thailand	3.8	5.9	14.2	8.9	69.9	85.9	16.7	17.1	20.4	20.6	15.0	12.1	14.1	18.3	17.0
Philippines	24.4	2.4	2.6	5.6	4.9	4.2	6.2	4.9	3.5	3.9	3.4	3.4	3.5	4.2	4.7
Indonesia	10.8	10.2	9.1	5.6	8.6	19.0	17.6	5.4	23.5	48.1	18.6	11.4	16.7	18.6	16.6
South Africa	136.0	77.7	143.8	125.5	127.9	138.7	137.1	141.8	172.4	176.4	170.2	157.3	167.7	187.8	193.3
Exports all countries	97,531.9	86,426.7	150,146.2	173,653.2	194,291.6	195,861.7	164,878.9	157,801.5	152,624.8	163,186.3	191,731.2	228,844.2	222,926.0	209,295.4	214,381.2
United States	53,042.4	38,968.4	67,213.7	80,020.9	88,443.3	90,750.0	74,271.2	69,742.3	57,492.2	71,307.7	87,157.2	111,017.7	103,985.3	81,879.5	82,224.6
Canada	3,533.1	3,421.1	5,051.4	6,973.6	8,144.1	6,123.6	5,052.0	5,318.2	6,796.6	7,764.4	8,080.5	10,452.1	11,308.2	12,849.3	14,174.0
Mexico	64.0	103.1	696.1	211.6	240.2	303.1	309.5	541.9	796.5	482.6	390.2	1,781.8	819.2	598.3	693.2
European Union	35,941.8	39,665.0	68,591.0	77,737.5	88,064.2	86,278.5	74,497.9	70,393.6	75,388.0	70,325.1	80,267.0	84,915.6	86,238.9	91,431.1	94,025.9
Germany	4,814.1	9,834.5	18,395.1	18,095.2	23,556.3	23,792.8	19,514.9	18,679.1	17,208.0	16,346.0	21,508.6	25,281.6	28,875.7	29,679.4	30,020.6
France	6,622.2	7,394.7	16,548.7	16,617.0	24,205.9	24,730.4	24,296.9	24,973.0	29,380.5	22,509.3	26,400.8	26,639.9	32,065.1	34,316.6	36,085.1
United Kingdom	18,412.2	15,438.7	19,823.6	24,523.0	22,513.1	18,714.7	15,545.0	13,863.7	14,117.7	18,205.1	20,065.5	18,052.8	10,663.7	11,889.7	11,950.6
Italy	1,820.2	3,222.8	4,884.5	7,230.7	6,431.8	6,903.5	4,697.3	4,478.7	3,601.8	3,957.7	3,478.2	5,561.6	5,696.7	6,998.7	7,295.5
Other European Union	4,273.1	3,774.4	8,939.1	11,271.7	11,357.1	12,137.0	10,443.8	8,399.1	11,080.0	9,307.1	8,813.8	9,379.7	8,937.8	8,546.8	8,674.2
Brazil	470.4	206.5	1,940.0	1,671.9	1,068.1	961.0	724.8	665.1	645.2	1,045.3	1,661.4	3,116.2	4,238.1	7,238.4	6,920.2
Argentina	39.8	5.5	3.9	41.8	25.2	43.6	58.3	5.6	52.7	160.2	90.2	73.3	160.1	309.9	315.9
Chile	5.3	1.1	6.0	73.2	5.3	14.9	12.5	6.3	10.8	22.6	21.7	62.1	71.8	95.7	95.0
Peru	0.0	0.8	2.0	0.6	0.1	5.0	0.4	0.0	2.7	0.2	1.5	0.2	0.9	0.5	0.5
Costa Rica	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	6.7	7.3	3.2	22.0	26.7
Japan	441.2	402.1	1,281.2	1,266.4	1,531.2	1,730.3	1,409.2	1,396.8	1,270.1	1,851.9	2,822.7	3,679.7	3,658.0	2,744.4	3,164.4
China	2.9	58.3	38.2	60.5	85.0	922.4	404.3	413.1	380.4	447.6	665.8	979.3	1,157.3	1,177.9	1,236.7
South Korea	503.6	621.9	423.1	429.8	524.5	589.8	576.4	427.1	537.1	474.0	1,501.9	2,136.2	994.7	1,321.8	1,430.2
Australia	735.4	342.5	712.7	685.8	846.7	917.4	913.9	832.5	1,027.6	1,018.4	1,007.6	1,019.0	915.5	722.1	772.0
Taiwan	2.9	4.6	28.5	7.5	73.7	14.5	33.4	15.4	24.0	57.4	69.8	126.1	106.3	95.7	99.2
Singapore	714.9	1,078.6	1,269.7	925.2	665.8	664.5	409.0	480.8	835.2	918.6	1,267.7	1,069.7	852.0	956.9	1,021.5
Hong Kong	144.7	95.7	121.8	158.4	128.9	185.8	145.6	131.0	187.8	204.7	225.1	229.2	203.7	200.0	198.5
India	12.8	27.0	34.4	18.6	31.6	27.4	15.4	39.2	16.6	42.1	111.9	33.5	65.7	53.7	53.7
Malaysia	373.5	216.5	634.8	758.7	1,307.2	1,864.5	2,112.6	3,489.5	2,723.0	2,078.9	1,792.8	2,452.8	1,614.2	731.6	742.4
Thailand	14.0	1.0	15.8	0.5	9.0	208.8	49.8	60.2	39.0	50.5	46.5	40.2	33.2	115.7	116.8
Philippines	1.1	0.7	16.8	3.2	2.2	0.4	0.0	0.4	3.8	41.3	107.8	71.5	34.8	32.2	33.6
Indonesia	8.7	1.5	35.8	5.3	21.6	33.8	125.6	178.8	38.1	49.7	43.6	41.6	92.8	45.0	46.1
South Africa	6.5	11.1	87.4	19.9	21.4	104.1	112.2	249.3	230.3	154.8	407.0	354.1	386.2	639.9	673.8

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Percent														
Import penetration all countries	65.2	45.4	63.0	69.5	77.2	79.1	73.4	75.1	73.3	72.5	75.8	80.9	75.9	72.7	68.1
United States	26.7	19.4	25.1	31.2	35.9	41.4	37.2	42.7	39.0	44.0	48.2	59.1	51.9	45.6	42.9
Canada	142.0	146.7	117.5	140.4	203.6	136.2	124.9	131.8	131.4	132.2	115.8	165.7	167.4	243.6	324.4
Mexico	221.2	184.7	163.6	127.9	139.3	145.0	152.4	179.1	375.6	259.5	192.5	969.2	178.0	155.4	186.6
European Union	98.9	81.9	109.2	119.4	133.5	131.2	129.1	119.1	135.6	110.3	117.9	111.9	102.5	101.6	99.6
Germany	62.0	131.5	240.4	159.2	295.8	289.6	331.2	312.5	398.8	198.3	248.6	510.5	401.5	452.3	441.5
France	66.3	45.0	76.0	77.3	97.9	99.1	102.6	108.0	137.8	83.0	100.1	89.1	93.6	94.8	86.0
United Kingdom	149.4	170.5	106.6	130.2	119.0	83.5	93.8	77.6	79.8	100.5	102.9	80.7	58.0	50.6	51.7
Italy	69.4	69.8	87.8	147.8	140.3	133.0	70.3	71.9	57.3	75.6	65.1	125.2	126.5	140.7	148.8
Other European Union	150.9	87.7	136.8	163.7	164.8	190.6	171.6	143.3	192.9	149.3	132.6	120.0	101.9	90.2	90.1
Brazil	8.5	4.5	9.7	10.8	13.9	9.4	8.3	5.0	8.1	7.9	11.1	17.3	22.9	102.8	130.3
Argentina	84.2	21.6	65.4	100.1	85.0	102.2	113.5	99.8	110.3	138.5	103.9	98.4	112.2	150.0	151.7
Chile	97.7	46.9	58.5	78.2	75.1	80.0	56.4	76.5	94.6	94.8	97.4	96.6	100.9	90.2	79.1
Peru	60.1	45.3	82.7	86.9	107.6	118.8	88.2	96.9	109.7	100.0	102.9	96.5	87.2	84.9	83.1
Costa Rica	118.5	7.4	32.9	52.3	72.4	79.3	84.5	90.3	86.5	36.6	48.4	85.1	87.7	119.8	129.1
Japan	76.6	51.4	70.5	78.6	79.1	82.1	75.0	74.7	62.6	57.7	68.4	73.9	79.6	71.8	67.3
China	56.8	56.8	42.5	38.6	41.7	54.0	51.9	47.7	26.5	28.7	36.2	39.9	27.2	23.4	22.8
South Korea	218.6	154.4	128.8	126.1	114.1	119.9	119.9	107.0	111.4	101.9	107.8	84.7	65.8	72.0	59.3
Australia	126.3	87.1	109.8	105.5	106.3	99.4	89.5	98.1	104.2	105.6	94.9	82.4	81.1	65.3	62.7
Taiwan	72.6	57.4	74.1	80.2	97.7	103.7	105.9	97.6	93.3	88.6	87.8	81.9	78.9	74.4	68.2
Singapore	105.0	96.7	101.0	92.7	86.8	83.5	80.8	80.2	91.4	94.8	104.3	101.8	95.5	101.9	104.8
Hong Kong	114.4	68.1	81.4	85.2	86.7	89.8	90.3	85.0	95.3	94.2	90.6	93.4	79.6	69.1	68.5
India	254.6	144.2	137.8	140.3	107.9	86.3	91.0	94.1	89.2	91.1	86.7	90.3	79.0	85.4	82.6
Malaysia	315.6	254.7	146.1	123.8	151.5	176.6	204.2	271.5	208.9	311.9	192.4	207.9	257.5	461.2	553.7
Thailand	140.6	95.4	105.2	112.0	112.9	117.7	108.7	116.3	119.7	116.9	99.5	85.3	89.9	86.6	81.6
Philippines	114.8	90.8	93.0	87.9	87.9	97.0	93.6	98.3	103.6	109.0	104.1	84.8	111.6	86.8	78.2
Indonesia	200.5	105.9	88.0	94.3	95.9	94.7	99.4	125.6	94.0	101.6	99.1	49.4	78.4	64.1	61.0
South Africa	79.6	44.3	51.0	56.8	90.9	90.0	85.9	80.6	83.6	62.9	85.7	83.6	79.2	87.2	79.9
	Millions of 1997 U.S. dollars														
Imports all countries	92,546.3	82,877.5	142,473.1	164,269.6	187,067.8	185,498.2	160,151.1	150,253.2	143,166.8	155,498.4	186,004.0	222,632.5	214,773.1	202,208.7	210,680.3
United States	11,901.0	15,525.9	19,666.0	24,484.1	24,276.6	25,857.1	22,825.5	21,642.3	23,582.8	23,860.9	27,003.0	36,419.7	38,434.3	43,449.9	51,553.7
Canada	5,081.4	4,452.1	6,595.5	5,778.8	6,134.4	6,075.0	3,986.1	3,454.0	4,521.3	5,307.8	8,049.4	8,422.5	8,246.5	8,103.1	8,165.8
Mexico	1,489.8	149.6	1,338.8	1,232.8	2,472.7	3,267.3	2,235.6	1,846.7	380.4	339.1	454.5	1,760.1	942.9	779.3	768.9
European Union	38,981.2	35,133.9	67,917.5	80,874.4	91,185.8	78,753.4	63,314.4	59,824.4	53,998.2	59,080.8	68,919.8	80,089.5	91,720.3	84,575.5	85,194.8
Germany	5,384.3	7,275.9	12,764.6	18,175.5	17,803.8	18,652.8	14,553.8	13,039.7	10,801.5	10,774.8	14,091.3	14,513.9	17,460.1	18,598.3	18,926.9
France	7,333.8	9,212.1	21,820.0	22,555.9	34,619.4	27,331.8	21,590.2	19,443.9	16,056.2	17,552.7	19,928.6	24,027.0	26,220.4	24,597.1	24,656.2
United Kingdom	14,997.4	9,510.9	11,715.1	14,734.3	12,109.4	11,605.3	10,583.8	11,069.9	9,883.1	12,025.5	17,780.4	18,036.7	14,829.0	11,326.9	11,209.3
Italy	2,771.3	3,142.6	3,378.1	4,818.3	5,291.1	4,466.5	3,182.0	3,519.9	3,371.1	3,741.4	3,424.7	5,159.3	5,284.2	6,445.4	6,481.0
Other European Union	8,494.5	5,992.3	18,239.7	20,590.3	21,362.2	16,697.2	13,404.6	12,751.1	13,886.2	14,986.5	13,694.8	18,352.7	27,926.6	23,607.8	23,921.5
Brazil	1,966.6	685.6	2,320.3	2,612.0	4,035.5	2,842.6	2,138.9	1,042.4	1,752.2	1,723.4	2,750.2	3,420.4	3,756.3	3,422.9	3,756.4
Argentina	707.6	17.6	227.7	279.1	123.5	684.7	608.8	738.5	518.0	467.0	739.4	878.1	1,108.2	879.3	845.4
Chile	254.8	51.0	266.1	637.1	412.2	766.8	72.9	213.4	587.3	681.5	475.0	910.9	306.9	818.8	810.7
Peru	56.5	72.4	135.4	144.3	118.6	115.0	75.9	94.6	137.5	58.0	32.3	86.7	66.7	58.4	58.3
Costa Rica	28.5	0.4	5.6	10.9	52.1	61.7	67.5	199.3	90.8	10.0	10.4	14.2	64.7	75.7	84.1
Japan	4,959.2	5,376.7	6,120.4	9,431.0	9,195.1	10,504.0	8,157.6	8,478.6	6,339.7	5,872.9	10,032.2	12,445.2	11,406.5	9,010.5	8,702.9
China	860.1	2,445.9	2,066.7	2,248.4	3,039.9	6,074.3	7,788.0	8,011.1	3,249.3	4,870.9	7,941.2	10,148.0	6,475.1	5,525.0	5,905.9
South Korea	1,442.9	1,669.2	3,496.3	2,953.8	4,555.8	4,724.5	4,729.4	4,672.0	5,369.1	5,587.0	5,034.9	4,188.8	2,624.7	4,893.3	4,857.5
Australia	1,672.0	3,220.9	4,666.7	5,732.8	5,718.0	4,518.2	1,673.8	2,554.8	2,522.7	3,532.0	2,674.7	3,586.4	3,846.4	4,361.6	4,322.3
Taiwan	1,051.7	1,146.1	1,343.4	1,495.4	3,365.9	3,623.4	4,838.4	4,121.7	4,793.4	3,071.3	5,154.2	6,536.1	4,671.7	3,108.3	2,915.2
Singapore	2,654.4	2,535.9	3,337.7	2,607.3	3,576.2	3,620.4	4,172.8	3,708.3	3,752.4	6,279.4	6,735.1	5,727.4	4,669.1	2,537.2	2,427.3
Hong Kong	932.5	657.6	1,031.7	1,532.4	1,701.3	1,701.6	2,044.0	1,316.8	4,080.9	3,835.1	1,417.4	4,113.6	1,906.9	1,079.0	1,069.1
India	2,974.5	706.3	2,004.7	1,844.3	666.1	662.2	2,657.8	2,060.2	1,433.1	1,857.9	1,155.9	1,561.7	589.5	1,118.4	1,103.5
Malaysia	840.0	409.8	1,905.1	3,397.0	3,273.5	4,068.3	4,090.0	5,460.9	5,547.3	3,105.1	3,703.4	3,962.6	2,401.3	929.3	910.3
Thailand	1,076.5	439.9	627.6	2,287.6	1,724.7	3,277.5	1,486.8	1,580.5	2,853.2	1,987.0	3,005.3	3,349.1	2,796.9	1,469.9	1,572.0

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Philippines.....	1,258.5	126.5	569.6	704.6	544.3	681.5	1,502.6	343.4	985.4	1,805.8	2,584.8	934.7	151.7	414.5	398.8
Indonesia.....	1,613.7	402.4	503.3	1,360.4	1,814.5	2,077.0	2,183.3	636.5	636.6	1,742.2	2,225.5	821.5	362.9	422.3	401.4
South Africa.....	1,108.7	471.4	517.1	581.9	2,201.7	1,284.3	1,231.5	678.3	1,054.1	697.6	889.5	1,702.9	1,390.9	1,617.3	1,597.1
Apparent consumption all countries.....	142,035.7	182,370.0	226,151.4	236,329.2	242,188.8	234,380.5	218,211.7	200,116.7	195,206.7	214,353.1	245,309.3	275,217.2	282,867.9	278,089.1	309,256.8
United States.....	44,629.6	80,060.6	78,363.2	78,608.9	67,618.2	62,539.5	61,376.8	50,687.3	60,468.7	54,208.6	56,019.4	61,648.0	74,129.3	95,266.9	120,156.4
Canada.....	3,578.6	3,035.2	5,615.6	4,117.0	3,013.5	4,461.0	3,191.3	2,620.0	3,441.3	4,015.0	6,949.3	5,084.3	4,927.2	3,326.8	2,517.6
Mexico.....	673.5	81.0	818.5	964.1	1,775.1	2,252.7	1,466.6	1,031.2	101.3	130.7	236.1	181.6	529.8	501.6	412.0
European Union.....	39,410.1	42,908.7	62,198.3	67,756.8	68,302.6	60,043.8	49,063.1	50,243.6	39,829.3	53,542.3	58,451.3	71,583.5	89,513.8	83,208.3	85,537.5
Germany.....	8,688.2	5,531.2	5,309.8	11,419.3	6,019.3	6,441.4	4,394.9	4,173.3	2,708.8	5,433.5	5,668.2	2,842.9	4,348.3	4,112.4	4,287.3
France.....	11,061.0	20,462.1	28,719.0	29,184.2	35,376.1	27,581.1	21,047.3	18,009.9	11,650.3	21,155.0	19,904.7	26,981.8	28,015.9	25,952.4	28,673.2
United Kingdom.....	10,037.9	5,577.5	10,989.9	11,315.1	10,174.9	13,903.2	11,283.7	14,264.3	12,389.6	11,968.1	17,286.4	22,341.8	25,567.6	22,384.7	21,669.0
Italy.....	3,995.2	4,503.4	3,848.1	3,260.2	3,770.2	3,359.0	4,524.4	4,896.3	5,881.4	4,949.0	5,263.9	4,121.2	4,177.3	4,580.3	4,355.3
Other European Union.....	5,627.8	6,834.5	13,331.5	12,578.0	12,962.1	8,759.1	7,812.9	8,899.8	7,199.2	10,036.7	10,328.3	15,295.9	27,404.7	26,178.5	26,552.7
Brazil.....	23,231.0	15,378.9	23,838.7	24,293.1	28,960.7	30,264.2	25,921.0	21,010.7	21,615.0	21,731.3	24,796.6	19,830.2	16,430.7	3,330.1	2,882.7
Argentina.....	840.6	81.6	348.2	278.7	145.3	670.2	537.2	739.9	469.7	337.3	712.0	892.7	987.8	586.4	557.2
Chile.....	260.8	108.7	454.8	814.9	549.0	958.1	129.2	279.1	621.1	719.0	487.7	943.2	304.3	908.2	1,025.1
Peru.....	94.0	159.7	163.8	166.2	110.2	96.8	86.0	97.6	125.3	58.0	31.4	89.9	76.5	68.8	70.1
Costa Rica.....	24.1	5.6	17.0	20.8	72.0	77.9	79.9	220.7	104.9	27.3	21.5	16.7	73.8	63.2	65.2
Japan.....	6,474.8	10,461.9	8,688.0	12,004.2	11,623.1	12,793.6	10,873.8	11,358.2	10,132.3	10,176.1	14,673.7	16,852.2	14,337.6	12,544.5	12,940.1
China.....	1,515.6	4,305.2	4,868.7	5,821.4	7,294.7	11,258.9	15,005.4	16,800.5	12,257.0	16,949.5	21,918.5	25,456.0	23,833.2	23,650.5	25,901.9
South Korea.....	660.0	1,081.2	2,715.5	2,343.2	3,992.2	3,941.5	3,945.1	4,366.1	4,820.2	5,483.6	4,672.2	4,948.2	3,989.0	6,799.6	8,191.5
Australia.....	1,323.7	3,697.8	4,249.3	5,435.5	5,381.7	4,544.7	1,869.8	2,604.3	2,421.5	3,343.7	2,817.2	4,350.7	4,744.9	6,684.6	6,899.2
Taiwan.....	1,449.0	1,996.2	1,813.8	1,865.1	3,445.8	3,494.5	4,567.1	4,221.6	5,137.4	3,466.2	5,870.9	7,981.9	5,922.1	4,179.3	4,274.2
Singapore.....	2,529.3	2,622.8	3,302.1	2,812.0	4,119.6	4,334.6	5,161.6	4,621.7	4,105.6	6,626.5	6,459.9	5,627.3	4,888.4	2,489.9	2,317.0
Hong Kong.....	815.0	966.4	1,268.1	1,799.3	1,961.7	1,894.0	2,263.4	1,548.4	4,282.4	4,069.6	1,563.7	4,403.8	2,395.1	1,561.9	1,561.1
India.....	1,168.4	489.8	1,455.1	1,314.4	617.1	767.2	2,921.3	2,190.2	1,606.9	2,039.5	1,332.6	1,728.8	746.2	1,310.2	1,335.5
Malaysia.....	266.2	160.9	1,304.0	2,745.1	2,161.4	2,304.1	2,003.2	2,011.3	2,656.1	995.6	1,925.3	1,906.3	932.4	201.5	164.4
Thailand.....	765.6	461.2	596.4	2,041.9	1,527.7	2,785.9	1,367.7	1,358.5	2,384.5	1,699.1	3,021.0	3,927.9	3,112.4	1,697.4	1,926.8
Philippines.....	1,096.1	139.2	612.2	801.2	619.3	702.8	1,605.3	349.5	951.2	1,656.2	2,483.8	1,102.1	135.9	477.7	509.7
Indonesia.....	804.7	380.1	572.0	1,442.8	1,892.8	2,192.8	2,196.6	507.0	677.2	1,715.0	2,245.4	1,661.9	462.9	659.3	658.1
South Africa.....	1,393.3	1,064.1	1,014.1	1,024.2	2,422.5	1,426.8	1,433.3	841.6	1,260.2	1,108.4	1,037.5	2,036.1	1,755.8	1,854.1	1,999.1
Office and computing machinery															
Production all countries.....	103,487.8	168,907.2	195,727.8	201,288.2	204,931.9	207,467.1	205,991.2	223,891.0	267,788.9	303,918.0	393,321.0	475,509.4	538,114.3	642,690.5	658,723.7
United States.....	24,729.8	41,885.8	42,806.7	41,040.2	37,036.7	41,767.1	44,113.6	51,134.1	64,266.5	75,363.2	110,867.1	153,061.9	160,660.9	174,794.0	201,161.7
Canada.....	1,627.1	2,180.9	3,337.1	3,268.5	3,361.6	3,489.0	3,853.6	6,531.3	8,959.0	7,238.8	3,712.3	4,274.3	3,817.5	5,214.8	4,909.2
Mexico.....	506.3	811.5	1,316.5	1,500.4	1,461.5	1,503.9	1,698.0	2,158.8	2,613.2	3,743.6	5,944.7	7,160.1	8,584.5	9,388.1	9,506.2
European Union.....	46,539.3	62,541.4	57,154.8	54,207.2	52,004.9	50,117.6	44,865.3	49,785.4	55,884.7	53,093.9	63,975.8	69,246.6	70,977.5	81,019.4	79,024.2
Germany.....	32,801.1	30,271.8	20,736.5	19,242.6	16,819.4	14,942.2	9,934.6	11,472.2	12,659.9	11,194.4	14,527.7	15,838.4	13,946.6	19,286.7	16,014.1
France.....	3,009.0	6,989.0	8,200.2	8,158.4	8,314.9	8,096.0	7,553.1	8,095.8	9,518.6	7,680.5	10,051.0	10,741.7	11,093.7	11,823.9	11,391.2
United Kingdom.....	4,892.3	10,077.9	14,914.5	15,240.2	15,844.8	16,007.3	16,267.5	17,652.3	18,203.3	19,538.5	22,588.7	25,387.4	27,201.8	28,436.5	31,349.7
Italy.....	2,535.1	7,707.6	5,354.7	4,231.4	3,506.2	3,419.8	3,404.7	4,009.5	4,956.0	4,165.2	4,327.2	4,546.8	4,525.9	3,762.2	3,557.9
Other European Union.....	3,301.8	7,495.1	7,948.8	7,334.6	7,519.6	7,652.4	7,705.4	8,555.6	10,546.8	10,515.3	12,481.2	12,732.3	14,209.6	17,710.1	16,711.3
Brazil.....	604.2	1,270.6	2,484.8	1,943.7	1,893.9	2,370.0	2,755.3	2,828.8	2,575.2	2,805.7	3,647.0	4,227.9	4,258.3	4,938.9	4,983.6
Argentina.....	276.2	125.4	105.4	93.5	110.3	121.8	192.6	195.4	167.9	191.2	309.7	317.1	301.9	235.8	222.4
Chile.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Peru.....	9.1	10.1	10.2	11.1	30.5	5.5	5.1	10.7	12.5	11.1	17.5	27.1	21.2	25.1	24.8
Costa Rica.....	0.0	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.5	1.9	2.3	2.2	2.2
Japan.....	24,484.0	51,709.1	68,329.8	75,180.0	84,530.7	80,897.2	75,883.2	71,072.9	78,999.7	92,551.8	104,042.8	108,101.3	105,717.7	112,666.1	100,773.2
China.....	666.5	934.8	1,695.4	2,148.0	2,554.1	2,721.3	2,685.9	3,140.7	5,547.4	13,000.1	21,883.2	39,434.2	69,195.6	103,853.4	122,324.9
South Korea.....	598.6	1,085.6	2,736.8	3,082.7	3,219.9	3,667.4	4,074.3	5,573.3	7,120.8	6,925.5	12,369.0	13,574.3	26,326.8	50,823.5	50,641.8
Australia.....	144.7	103.3	135.3	216.5	240.7	442.6	481.3	617.5	637.1	606.8	924.6	967.5	925.8	1,207.7	1,141.4
Taiwan.....	911.8	2,517.9	4,733.0	5,154.0	5,702.9	6,671.9	8,145.9	9,855.4	15,017.7	17,558.3	25,467.5	28,692.3	33,118.6	34,177.6	25,531.6
Singapore.....	258.0	543.9	6,056.6	7,278.8	7,081.9	8,288.0	11,931.8	15,267.0	18,433.0	21,458.6	27,142.0	30,291.9	33,146.7	39,301.4	34,471.9

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Millions of 1997 U.S. dollars														
Hong Kong.....	155.1	403.2	1,369.9	2,402.2	2,506.9	2,250.7	1,942.4	1,762.0	2,500.4	2,356.8	2,352.9	3,303.1	3,150.2	4,008.5	3,675.5
India.....	22.1	41.6	457.4	421.3	603.6	659.8	417.2	811.8	833.4	807.2	1,276.6	1,367.9	1,559.4	1,560.0	1,616.9
Malaysia.....	3.1	3.0	4.0	50.5	157.5	217.5	382.0	432.6	782.9	2,063.3	3,424.6	3,726.5	5,537.0	8,124.0	8,436.8
Thailand.....	0.2	1.0	1.4	21.3	56.7	138.8	89.4	10.3	13.3	15.5	22.3	28.8	31.0	32.9	32.9
Philippines.....	4.2	8.6	59.0	7.6	13.8	22.9	190.5	248.3	471.0	399.0	550.9	653.5	1,024.4	1,202.0	1,360.9
Indonesia.....	0.4	1.2	1.9	3.1	2.1	4.9	37.8	8.4	31.6	43.2	28.9	21.6	17.9	40.6	41.4
South Africa.....	13.8	12.4	14.8	14.2	12.3	10.4	10.2	9.9	11.2	15.8	21.4	26.5	32.6	36.0	37.0
Value added all countries.....	41,437.5	59,235.4	69,278.4	69,497.7	67,093.8	64,442.9	62,271.0	66,479.6	74,969.2	85,279.3	108,625.4	138,287.1	146,339.1	166,977.7	180,901.2
United States.....	13,202.1	17,763.6	21,679.8	20,248.1	17,567.0	17,348.9	17,557.6	19,147.6	21,517.3	24,575.1	36,201.8	55,037.5	51,336.1	52,747.7	68,277.7
Canada.....	608.5	931.3	957.3	789.6	609.3	505.3	833.1	924.7	643.7	496.4	673.9	919.0	618.1	844.4	792.7
Mexico.....	204.3	331.5	539.4	619.2	629.1	705.6	734.4	872.3	1,037.0	1,499.6	2,408.0	2,862.9	2,986.7	3,078.7	3,112.0
European Union.....	19,295.9	23,137.4	21,117.5	19,765.0	18,322.0	15,993.4	14,254.4	15,684.7	16,896.8	15,902.6	18,219.6	19,795.4	18,923.4	20,506.5	20,075.5
Germany.....	13,988.2	12,930.8	8,876.7	8,240.2	7,337.7	5,307.2	3,895.4	4,269.2	4,307.9	3,728.0	4,940.3	5,033.6	4,226.2	4,616.6	3,975.9
France.....	1,390.1	3,006.8	3,216.7	3,111.7	2,883.7	3,093.1	2,550.8	2,652.3	2,846.3	2,600.9	2,980.0	3,320.3	3,064.7	2,963.5	3,049.2
United Kingdom.....	2,069.6	3,384.5	4,756.9	4,736.7	4,437.5	4,004.6	4,335.1	5,072.0	5,073.4	5,154.3	5,692.2	6,549.2	6,274.3	6,116.6	6,270.6
Italy.....	421.7	872.3	939.9	806.8	787.5	833.6	628.5	600.7	1,054.4	646.1	683.2	745.1	759.1	691.7	654.3
Other European Union.....	1,426.3	2,943.0	3,327.3	2,869.6	2,875.7	2,754.9	2,844.7	3,090.5	3,614.8	3,773.2	3,923.9	4,147.2	4,598.9	6,118.2	5,675.4
Brazil.....	363.1	753.0	1,489.9	1,281.8	1,248.9	1,677.9	1,865.5	1,712.4	1,461.0	1,591.8	2,069.1	2,398.7	2,415.9	2,802.0	2,826.2
Argentina.....	127.7	70.6	38.3	39.7	46.8	51.7	70.6	67.2	50.4	61.9	100.3	102.7	97.7	76.3	72.0
Chile.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Peru.....	3.2	3.2	3.0	5.4	6.9	1.6	1.6	3.2	3.6	3.1	4.8	7.5	5.8	6.9	6.8
Costa Rica.....	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.8	1.0	1.2	1.2	1.2
Japan.....	6,063.1	13,821.7	18,000.8	20,025.9	22,157.3	20,952.3	18,559.8	18,271.3	20,963.3	24,654.7	25,451.0	26,673.8	26,967.3	28,795.6	25,750.4
China.....	299.0	337.1	510.4	620.8	723.2	770.1	813.0	881.5	1,506.1	3,471.9	6,004.2	10,360.9	18,641.3	27,952.3	32,893.6
South Korea.....	50.4	139.9	605.7	820.1	714.0	779.6	872.8	1,195.5	1,530.8	1,430.2	2,298.1	2,544.0	4,426.0	7,683.1	7,663.0
Australia.....	50.8	37.5	42.2	66.2	77.1	143.2	166.5	217.9	229.8	257.1	378.2	387.0	390.6	509.6	482.5
Taiwan.....	182.7	504.1	925.0	1,105.5	1,200.7	1,417.4	1,703.6	1,982.5	2,740.6	3,427.9	4,750.1	5,431.7	6,070.4	5,854.1	4,311.9
Singapore.....	109.0	218.0	1,871.0	2,186.1	2,073.7	2,456.1	3,297.1	3,831.4	4,426.6	5,456.7	6,690.0	7,640.2	8,758.6	10,328.1	9,047.8
Hong Kong.....	63.3	90.1	263.9	555.4	501.3	467.0	343.0	367.6	472.8	465.7	516.3	885.1	590.8	825.6	757.4
India.....	8.0	17.2	116.5	97.6	152.3	187.1	91.3	202.2	182.5	135.6	226.9	241.7	274.9	274.9	284.0
Malaysia.....	1.8	1.7	1.1	11.0	39.1	38.6	69.6	61.7	90.0	349.4	736.0	802.0	1,189.5	1,737.0	1,800.3
Thailand.....	0.1	0.4	0.3	13.7	45.2	93.1	83.0	3.0	3.9	4.5	6.5	8.3	9.0	9.5	9.5
Philippines.....	1.9	1.7	7.9	4.5	7.0	8.5	35.2	65.3	153.4	128.3	178.6	211.9	332.1	391.5	445.3
Indonesia.....	0.2	0.5	0.7	1.2	0.8	1.7	4.1	3.6	4.3	1.3	6.4	4.2	3.3	7.8	7.9
South Africa.....	6.7	5.4	5.4	5.4	5.0	4.5	4.5	4.3	4.9	6.9	9.3	11.6	14.2	15.7	16.1
Exports all countries.....	36,317.8	79,864.0	144,568.3	163,797.4	180,286.0	203,725.0	231,731.5	281,052.2	365,169.9	438,478.0	555,930.5	621,984.9	747,180.9	929,992.7	871,078.0
United States.....	11,260.9	20,705.3	34,739.4	37,498.4	40,297.8	44,468.5	47,775.9	59,194.5	75,138.6	89,039.6	108,522.0	109,593.1	119,862.0	152,699.6	141,933.4
Canada.....	1,141.4	2,098.2	3,154.7	3,673.5	4,367.2	5,081.8	5,524.0	7,722.1	10,292.4	9,781.3	10,686.2	12,229.7	12,763.4	15,290.7	13,014.4
Mexico.....	58.5	477.6	865.8	778.7	997.6	1,562.1	2,001.2	3,439.6	4,839.8	7,705.7	12,270.0	16,324.5	22,504.2	28,951.0	26,655.9
European Union.....	16,531.0	33,383.1	50,773.0	56,908.6	60,592.1	63,143.8	73,537.9	86,078.2	113,862.3	129,919.0	166,129.5	201,494.9	236,879.6	273,113.8	266,119.2
Germany.....	4,042.1	7,687.2	10,021.0	11,094.0	11,642.6	11,492.7	12,130.7	14,539.5	18,089.8	19,862.5	23,915.7	31,006.2	36,779.0	46,362.3	45,555.2
France.....	2,469.2	4,208.6	6,586.2	7,071.2	7,879.3	8,644.9	8,756.9	10,339.2	13,619.3	16,275.6	20,305.5	24,417.0	26,110.5	29,173.7	28,441.2
United Kingdom.....	3,648.6	7,854.2	13,116.0	14,701.3	15,529.8	15,809.8	19,310.9	22,748.9	30,346.6	33,439.0	42,425.2	47,023.8	55,149.3	60,509.5	58,679.4
Italy.....	2,454.6	3,513.1	5,268.2	5,517.3	5,659.6	5,485.4	6,817.2	7,163.5	8,731.6	8,103.1	7,570.3	8,156.1	8,851.3	9,085.9	8,851.8
Other European Union.....	3,916.6	10,120.0	15,781.5	18,524.9	19,880.9	21,711.0	26,522.2	31,282.2	43,075.0	52,238.8	71,912.7	90,891.9	109,989.6	127,982.3	124,591.6
Brazil.....	482.7	411.3	408.2	265.6	430.5	429.8	381.7	335.5	450.1	658.4	699.2	875.0	1,311.1	1,400.4	1,318.4
Argentina.....	215.9	206.8	179.0	166.5	194.9	168.2	122.8	133.7	115.3	82.6	63.3	85.8	77.6	115.1	98.8
Chile.....	0.7	0.5	1.5	1.1	2.1	5.4	5.3	6.5	11.3	14.9	21.6	30.5	37.2	46.4	43.4
Peru.....	0.1	1.5	1.4	0.0	0.3	0.5	0.7	0.3	1.3	3.1	4.4	7.7	8.1	10.2	9.3
Costa Rica.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6	0.7	81.2	101.0	116.6	121.3
Japan.....	4,107.7	14,821.0	30,001.8	33,284.5	36,179.4	41,631.5	45,020.5	48,342.9	53,577.9	57,147.7	70,465.6	73,149.7	77,861.8	85,427.5	79,019.7
China.....	12.9	19.9	214.5	457.3	726.2	1,564.4	2,352.8	3,708.4	6,911.4	11,052.1	17,490.3	26,539.0	34,468.0	51,212.1	50,464.5
South Korea.....	127.1	829.1	3,137.1	3,298.6	3,620.8	4,032.2	4,624.7	4,949.3	7,226.7	9,509.3	12,849.2	13,242.2	29,180.2	57,182.7	49,103.6

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Australia.....	137.5	192.7	459.4	633.1	876.0	945.7	1,182.9	1,717.5	2,102.8	2,485.4	2,517.1	2,326.0	2,454.0	2,375.0	2,242.5
Taiwan	347.5	2,007.5	6,215.3	7,428.8	8,849.7	11,083.7	12,228.3	15,261.1	21,988.1	28,470.8	35,810.8	40,687.2	55,558.6	66,989.0	58,791.0
Singapore.....	259.7	1,709.7	7,449.0	10,318.4	11,655.8	14,672.0	20,218.1	27,540.4	36,990.7	47,503.6	56,106.9	56,145.0	66,042.4	78,818.2	69,983.8
Hong Kong.....	739.8	1,574.8	3,085.2	4,182.4	5,159.7	6,787.3	6,975.6	8,705.8	12,996.9	15,937.3	20,901.4	24,441.0	28,738.8	40,870.3	40,197.6
India.....	4.8	23.1	66.6	58.7	37.2	93.6	167.9	237.7	377.8	555.5	531.6	199.4	362.7	1,140.7	1,100.9
Malaysia.....	3.9	43.4	350.4	970.4	1,810.1	2,354.0	3,211.5	5,521.6	7,370.4	11,315.6	15,754.6	15,187.4	19,495.1	25,596.1	24,055.7
Thailand.....	6.1	91.9	1,314.0	1,661.6	2,143.7	2,816.8	3,095.2	4,450.1	6,042.9	7,875.3	8,723.9	7,882.4	10,549.2	14,741.0	14,270.1
Philippines.....	1.9	0.5	227.2	88.6	148.5	278.0	325.6	363.4	729.0	3,440.4	5,721.7	7,208.1	8,681.0	10,912.6	10,932.4
Indonesia.....	2.3	15.7	11.8	10.3	44.5	215.7	211.1	280.7	367.1	548.3	790.9	493.8	682.2	1,593.5	1,498.2
South Africa.....	10.9	31.1	21.8	33.7	31.9	72.0	81.2	83.8	122.6	204.9	296.4	326.6	537.6	419.6	401.0
Percent															
Import penetration all countries.....	32.9	44.6	69.1	77.7	82.5	95.9	107.6	118.5	130.0	137.6	135.5	126.2	131.7	133.8	121.2
United States.....	29.0	52.1	84.6	97.9	116.6	112.0	110.1	114.1	112.6	115.0	98.4	78.4	84.2	91.2	74.9
Canada.....	48.0	51.7	63.7	68.6	73.5	72.9	72.3	73.7	79.6	80.6	142.9	137.4	153.2	155.5	123.8
Mexico.....	37.0	41.5	56.9	47.7	59.0	80.9	94.9	134.2	238.7	320.3	367.3	552.6	712.8	834.7	732.9
European Union.....	37.5	48.2	78.9	94.7	101.8	110.2	129.1	134.1	157.1	176.0	173.8	189.0	204.1	190.4	181.6
Germany.....	13.4	25.9	56.3	69.7	79.1	89.9	112.8	107.5	122.3	137.8	122.0	139.6	159.5	146.9	162.2
France.....	71.7	54.0	77.7	88.7	93.9	105.8	107.5	114.2	132.3	171.5	150.8	163.8	167.3	149.0	146.7
United Kingdom.....	67.1	64.1	75.9	85.9	89.8	88.4	103.1	119.3	154.3	157.5	177.7	163.2	168.8	158.6	133.9
Italy.....	99.7	42.6	92.9	117.3	132.7	128.6	168.6	152.3	147.9	153.8	130.4	139.8	150.6	154.5	137.2
Other European Union.....	77.7	74.7	103.3	129.8	135.6	152.9	178.3	185.9	210.5	232.2	250.7	286.0	312.8	298.9	279.8
Brazil.....	54.9	35.3	25.3	31.7	35.8	39.4	41.8	51.2	68.7	73.4	65.6	55.3	39.3	39.5	30.2
Argentina.....	43.7	87.4	106.0	117.8	105.8	96.4	96.3	103.4	110.5	116.1	90.4	96.1	109.7	122.8	103.4
Chile.....	69.7	66.4	65.7	66.5	68.1	70.3	74.5	80.3	85.1	91.9	101.7	113.9	124.5	130.5	137.3
Peru.....	28.5	30.3	54.0	56.3	61.7	88.1	78.6	92.3	111.5	114.6	98.0	77.8	58.0	52.9	44.7
Costa Rica.....	1,242.1	349.2	213.4	202.8	171.8	167.7	155.6	148.1	139.1	116.9	97.9	267.1	288.2	382.3	416.5
Japan.....	6.7	7.7	14.6	15.4	14.6	18.5	25.0	36.5	47.6	47.9	51.9	49.2	60.6	71.8	77.5
China.....	26.9	111.8	55.3	47.2	55.0	75.9	107.0	124.0	128.6	81.6	74.9	63.0	45.5	46.0	39.5
South Korea.....	29.9	93.7	376.1	203.3	240.7	326.8	270.4	106.7	129.6	206.8	107.2	92.2	128.3	220.6	215.4
Australia.....	87.9	89.5	116.5	121.9	134.0	121.3	124.8	150.6	167.9	199.9	121.2	110.3	121.4	87.9	70.7
Taiwan.....	27.6	123.6	376.1	416.1	448.0	464.6	418.8	426.3	377.8	435.8	383.8	389.4	475.8	600.7	700.0
Singapore.....	89.2	530.7	358.4	415.1	481.2	520.8	503.1	544.6	605.3	665.3	614.8	550.6	578.3	571.0	558.2
Hong Kong.....	634.3	630.9	560.0	472.4	547.7	679.3	794.9	880.2	914.4	1,052.0	994.3	836.1	697.0	623.2	534.7
India.....	78.4	104.3	53.6	51.2	30.4	32.0	56.5	48.7	68.0	83.2	70.2	66.2	78.3	106.1	93.5
Malaysia.....	193.8	211.5	383.8	886.7	1,510.5	1,857.7	1,653.3	1,856.0	1,674.3	1,205.1	992.4	800.8	726.6	695.1	601.3
Thailand.....	81.7	104.6	737.6	1,096.9	1,162.0	1,117.9	1,271.8	1,516.2	1,699.9	1,872.5	1,410.1	1,052.1	1,305.6	1,223.1	999.6
Philippines.....	69.1	68.2	218.7	125.9	192.8	227.0	136.4	126.7	141.0	752.0	1,158.2	943.8	850.3	724.6	573.0
Indonesia.....	146.8	92.0	71.4	73.2	90.1	387.2	439.0	849.4	1,432.0	1,691.8	1,488.8	526.4	1,079.4	1,004.2	820.2
South Africa.....	77.3	65.0	89.7	110.7	123.7	144.5	146.1	154.3	170.3	126.9	114.8	83.2	69.9	60.5	45.8
Millions of 1997 U.S. dollars															
Imports all countries.....	35,274.5	80,344.6	151,286.4	172,810.0	191,722.6	219,579.5	252,831.9	311,174.9	406,223.3	490,978.2	620,837.3	719,374.6	880,060.4	1,072,762.1	1,020,309.0
United States.....	4,320.7	17,485.5	34,984.2	38,478.8	42,932.0	52,814.4	64,038.7	77,975.4	94,295.6	109,782.1	139,671.2	162,591.6	197,192.6	230,294.0	190,097.1
Canada.....	1,767.7	4,021.9	6,501.9	7,601.2	8,906.5	10,082.0	11,215.5	13,469.9	16,339.8	19,278.8	23,237.2	25,258.9	28,622.3	34,802.8	33,820.7
Mexico.....	462.7	729.7	1,118.5	1,462.9	1,981.7	2,385.6	3,194.9	4,354.5	4,108.7	6,007.7	8,691.7	10,182.9	13,684.8	18,791.7	17,691.7
European Union.....	20,417.0	39,998.9	73,784.6	84,365.0	89,998.3	97,428.6	105,190.0	122,780.5	161,827.7	188,701.5	240,568.7	295,547.4	348,136.3	392,652.8	386,326.1
Germany.....	4,468.1	8,264.9	15,578.2	19,231.9	22,140.8	23,803.9	24,544.1	28,999.2	36,964.3	41,294.6	52,012.3	61,970.1	75,456.7	82,478.1	80,581.2
France.....	3,505.9	6,050.3	10,424.1	11,227.5	11,412.4	12,647.6	13,928.4	17,094.1	21,282.1	24,309.3	30,442.2	36,338.5	38,637.5	45,119.2	44,819.1
United Kingdom.....	3,943.9	7,931.7	15,688.6	17,073.7	17,353.0	19,223.4	22,270.2	24,694.9	31,105.3	35,551.3	45,356.8	56,001.7	67,568.7	81,523.7	79,143.4
Italy.....	2,118.2	3,697.8	6,041.2	6,928.1	7,466.9	7,917.1	7,513.6	8,104.9	10,421.0	12,718.2	13,898.4	16,600.7	20,110.4	22,442.3	22,529.2
Other European Union.....	6,381.0	14,054.3	26,052.5	29,903.9	31,625.3	33,836.6	36,933.7	43,878.3	62,055.0	74,828.3	98,858.9	124,636.4	146,363.0	161,089.7	159,253.1
Brazil.....	325.5	471.3	668.9	689.5	772.9	1,177.1	1,575.9	2,172.6	3,086.8	4,362.9	5,627.8	5,901.6	5,127.1	7,190.5	6,492.9
Argentina.....	391.8	259.7	211.5	258.0	557.9	796.7	1,132.2	1,643.0	1,317.1	1,770.1	2,325.8	2,977.2	3,051.2	3,420.4	3,198.2
Chile.....	81.3	96.4	186.4	187.6	253.1	359.0	436.1	532.0	765.1	938.7	1,328.5	1,328.8	1,427.0	1,630.3	1,540.6
Peru.....	39.3	59.6	57.3	56.5	86.3	92.6	129.5	215.1	339.6	475.3	627.2	696.3	604.8	735.3	720.2
Costa Rica.....	5.0	9.0	11.3	15.6	12.6	17.9	24.4	19.2	21.0	28.2	38.6	107.6	114.9	124.7	122.9

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Japan	1,369.7	2,436.5	5,705.1	6,659.2	7,516.4	8,277.2	10,377.4	14,291.0	25,293.0	32,800.1	36,247.0	35,461.4	50,853.0	71,901.4	68,910.2
China	184.8	1,394.5	1,143.2	1,198.6	1,703.4	2,476.2	3,544.9	4,674.6	6,991.3	9,096.3	13,072.6	18,575.1	25,377.7	36,812.5	40,804.5
South Korea	216.5	740.5	2,029.4	2,314.8	2,555.6	2,321.5	2,755.7	3,922.2	5,560.2	6,984.2	7,181.2	4,221.5	10,434.2	20,112.2	20,572.9
Australia	788.4	2,054.3	3,308.2	3,368.1	3,421.7	3,862.7	4,360.0	5,686.4	6,902.0	7,585.5	9,110.8	9,899.7	11,188.3	12,734.2	12,081.5
Taiwan	194.7	577.3	2,630.5	3,168.1	3,751.5	4,452.7	4,810.8	5,942.1	7,764.0	10,755.5	13,987.7	15,998.2	24,636.0	37,094.9	37,046.0
Singapore	285.3	1,410.0	4,618.2	6,649.4	7,666.0	9,618.0	12,476.8	16,861.9	21,884.3	28,763.4	34,591.6	35,037.5	41,508.7	47,308.8	46,848.9
Hong Kong	652.5	1,419.7	2,455.7	2,884.5	3,761.4	5,557.0	5,883.2	7,886.5	11,553.6	14,809.2	20,622.5	24,177.5	29,068.1	42,148.0	41,793.0
India	36.3	142.4	413.1	344.3	248.7	266.4	335.7	532.0	887.3	1,076.1	1,756.4	2,061.9	2,920.1	5,024.7	5,090.4
Malaysia	90.8	254.8	555.6	1,001.2	1,611.3	2,046.1	2,729.2	5,115.4	6,960.4	9,861.8	13,711.7	13,586.9	17,576.2	22,843.1	21,933.9
Thailand	53.2	240.8	1,377.6	1,662.0	2,138.2	2,771.8	3,107.1	4,591.2	6,248.0	8,479.1	9,365.7	8,289.9	10,746.5	15,073.8	14,791.3
Philippines	73.1	75.8	300.0	259.6	255.3	466.8	452.8	547.6	921.3	3,542.9	5,659.4	6,826.1	8,506.3	10,016.6	9,531.4
Indonesia	60.8	157.3	230.8	279.7	293.2	260.4	216.7	300.2	367.3	548.4	816.9	488.3	688.4	1,686.1	1,595.4
South Africa	510.7	701.9	622.1	577.9	676.7	875.6	1,162.3	1,461.2	1,849.0	2,024.0	2,133.9	2,847.8	3,398.7	3,724.8	3,450.3
Apparent consumption all countries	107,183.8	180,349.9	219,093.5	222,489.9	232,422.5	228,864.5	235,040.0	262,708.2	312,379.0	356,739.5	458,227.9	569,948.4	668,364.2	801,531.5	842,122.7
United States	14,886.5	33,533.3	41,367.9	39,323.1	36,815.2	47,175.8	58,189.3	68,318.4	83,737.2	95,497.0	142,016.3	207,413.3	234,122.5	252,611.9	253,766.2
Canada	3,682.3	7,779.7	10,205.3	11,077.4	12,119.1	13,826.2	15,520.3	18,276.5	20,518.6	23,917.3	16,263.2	18,384.9	18,677.9	22,386.6	27,312.0
Mexico	1,250.3	1,760.2	1,964.6	3,068.2	3,358.2	2,949.6	3,368.1	3,245.1	1,721.6	1,875.8	2,366.4	1,842.7	1,919.9	2,251.3	2,413.8
European Union	54,445.2	82,999.7	93,477.2	89,057.6	88,419.9	88,452.5	81,486.9	91,590.0	102,981.0	107,211.9	138,415.0	156,347.7	170,572.9	206,263.3	212,691.8
Germany	33,339.2	31,915.6	27,669.3	27,583.7	27,975.2	26,473.0	21,755.4	26,982.2	30,214.4	29,961.7	42,624.3	44,400.8	47,319.3	56,140.5	49,680.7
France	4,890.2	11,204.9	13,419.7	12,658.4	12,157.0	11,955.1	12,959.4	14,967.2	16,084.1	14,172.6	20,187.6	22,189.6	23,091.8	30,280.7	30,557.6
United Kingdom	5,875.0	12,377.4	20,674.1	19,868.2	19,333.5	21,737.8	21,596.3	20,702.9	20,159.4	22,577.1	25,520.3	34,312.4	40,024.6	51,411.3	59,118.6
Italy	2,124.5	8,677.2	6,503.9	5,905.3	5,628.1	6,156.5	4,456.9	5,323.0	7,047.5	8,267.9	10,655.3	11,872.2	13,352.4	14,528.1	16,422.3
Other European Union	8,216.3	18,824.6	25,210.3	23,042.1	23,326.1	22,130.1	20,718.9	23,614.7	29,475.6	32,232.6	39,427.4	43,572.6	46,784.7	53,902.7	56,912.6
Brazil	592.9	1,334.3	2,645.1	2,177.7	2,158.1	2,990.6	3,771.4	4,247.0	4,494.8	5,942.9	8,575.7	10,670.6	13,054.3	18,196.8	21,514.3
Argentina	896.2	297.1	199.5	219.1	527.1	826.3	1,175.6	1,589.8	1,192.0	1,525.1	2,572.1	3,096.6	2,780.6	2,784.6	3,092.0
Chile	116.7	145.2	283.9	282.1	371.8	510.5	585.3	662.4	899.3	1,021.2	1,306.9	1,166.2	1,146.3	1,249.3	1,122.4
Peru	138.0	196.6	106.2	100.3	140.0	105.1	164.7	233.1	304.5	414.9	640.3	894.9	1,042.1	1,388.9	1,612.2
Costa Rica	0.4	2.6	5.3	7.7	7.3	10.7	15.7	13.0	15.1	24.1	39.4	40.3	39.9	32.6	29.5
Japan	20,383.4	31,858.3	39,013.7	43,220.8	51,476.0	44,687.3	41,441.8	39,205.6	53,123.6	68,527.2	69,824.2	72,049.8	83,894.8	100,177.0	88,966.9
China	686.2	1,247.6	2,067.4	2,539.9	3,095.3	3,260.9	3,314.0	3,769.7	5,436.3	11,149.2	17,465.5	29,463.4	55,782.2	80,081.8	103,295.1
South Korea	725.1	790.2	539.6	1,138.6	1,061.9	710.4	1,019.1	3,676.9	4,289.3	3,377.7	6,701.0	4,578.7	8,129.8	9,117.0	9,553.2
Australia	897.3	2,295.9	2,840.6	2,763.6	2,552.8	3,183.8	3,492.4	3,775.4	4,110.1	3,793.9	7,518.3	8,974.2	9,217.4	14,491.4	17,079.5
Taiwan	704.8	467.2	699.5	761.4	837.4	958.5	1,148.7	1,393.9	2,055.0	2,467.8	3,644.4	4,108.8	5,178.3	6,174.9	5,292.2
Singapore	320.0	265.7	1,288.7	1,602.0	1,593.2	1,846.8	2,480.2	3,096.2	3,615.5	4,323.4	5,626.7	6,363.7	7,177.6	8,285.6	8,392.5
Hong Kong	102.9	225.0	438.5	610.7	686.8	818.1	740.1	896.0	1,263.5	1,407.8	2,074.1	2,891.8	4,170.5	6,763.7	7,816.8
India	46.4	136.5	770.8	671.9	818.7	833.3	594.6	1,092.6	1,304.2	1,293.1	2,501.3	3,115.9	3,731.5	4,735.6	5,446.9
Malaysia	46.9	120.5	144.8	112.9	106.7	110.1	165.1	275.6	415.7	818.3	1,381.7	1,696.6	2,418.9	3,286.3	3,647.5
Thailand	65.1	230.3	186.8	151.5	184.0	248.0	244.3	302.8	367.6	452.8	664.2	787.9	823.2	1,232.4	1,479.7
Philippines	105.9	111.2	137.2	206.2	132.4	205.6	331.9	432.3	653.5	471.1	488.6	723.3	1,000.4	1,382.4	1,663.3
Indonesia	41.5	171.1	323.2	382.0	325.3	67.3	49.4	35.3	25.7	32.4	54.9	92.8	63.8	167.9	194.5
South Africa	660.9	1,080.6	693.7	522.1	546.9	606.2	795.6	946.8	1,085.9	1,594.6	1,858.9	3,423.7	4,863.7	6,159.3	7,533.9
Communication equipment															
Production all countries	215,875.2	338,246.1	433,095.5	452,277.3	479,601.6	474,162.1	504,443.4	572,769.1	677,391.7	751,043.2	907,251.8	925,794.4	1,052,093.4	1,286,535.7	1,178,258.3
United States	40,892.2	75,186.6	82,508.3	83,476.2	85,235.2	94,327.9	104,425.6	125,307.4	162,732.6	180,784.7	230,862.0	244,854.1	290,858.3	367,419.6	280,017.9
Canada	4,464.1	5,332.0	7,707.0	8,293.6	8,216.6	9,045.6	8,981.6	10,015.5	11,863.7	11,714.7	13,534.0	16,092.1	17,766.8	22,987.6	15,266.6
Mexico	5,266.3	5,006.8	5,946.4	6,834.6	6,217.4	6,319.9	6,516.5	8,176.6	13,138.3	15,617.9	19,263.6	23,270.1	23,856.5	25,548.9	25,548.9
European Union	49,662.9	68,040.8	82,069.6	85,932.4	90,339.9	87,618.5	93,347.1	105,699.2	118,982.8	129,502.5	151,393.5	169,280.6	196,489.6	247,262.4	242,726.5
Germany	14,600.4	16,632.3	19,159.4	19,545.5	25,109.6	23,474.6	22,226.0	24,128.7	24,654.8	23,788.0	24,408.3	24,647.3	31,050.1	41,863.6	51,847.6
France	4,800.2	8,023.1	9,772.6	9,913.3	10,319.0	10,355.6	10,962.4	12,232.5	14,048.0	16,852.8	24,436.5	30,915.4	35,672.3	46,742.9	53,527.4
United Kingdom	12,015.2	16,034.8	16,807.7	16,705.5	16,228.4	15,403.4	17,297.1	19,949.9	22,666.2	24,175.1	26,951.6	27,518.4	31,388.1	39,127.7	27,821.1
Italy	2,800.9	5,797.5	8,188.2	10,513.8	10,464.3	10,871.2	12,758.4	14,251.4	16,747.6	17,339.0	17,594.5	16,836.5	14,273.6	15,166.4	13,899.0
Other European Union	15,446.1	21,553.1	28,141.7	29,254.4	28,218.6	27,513.7	30,103.3	35,136.7	40,866.3	47,347.6	58,002.6	69,363.0	84,105.5	104,361.9	95,631.4
Brazil	7,961.2	7,721.5	9,034.7	7,506.6	6,967.3	7,379.5	8,549.7	7,278.5	6,607.4	7,023.8	7,015.7	6,374.0	5,274.9	6,022.0	5,908.3

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Argentina.....	1,554.2	895.4	683.1	852.9	1,077.5	1,463.7	1,158.7	1,196.6	918.8	909.2	1,121.5	1,137.6	891.8	868.4	819.4
Chile.....	82.8	46.5	103.4	30.4	29.7	36.1	33.9	31.8	48.2	55.9	46.7	40.4	33.6	36.3	36.7
Peru.....	501.3	217.2	191.9	111.9	105.1	163.6	83.6	23.5	26.2	28.2	29.6	28.3	25.5	26.1	25.8
Costa Rica.....	43.2	71.0	93.1	111.2	22.3	31.2	40.0	46.5	38.8	40.7	50.1	62.3	34.6	31.3	31.4
Japan.....	61,670.4	111,821.9	141,644.1	149,203.0	164,195.8	146,955.3	145,272.0	152,375.2	179,695.8	200,201.0	246,691.9	200,428.3	190,332.0	202,619.7	188,489.6
China.....	2,301.7	8,210.9	15,469.4	14,434.8	15,675.7	18,130.1	23,001.9	32,492.4	28,646.6	39,255.3	48,229.7	52,907.8	65,265.1	72,309.8	81,005.8
South Korea.....	3,762.7	6,715.1	16,785.8	19,478.5	20,892.2	20,691.5	23,736.4	30,709.1	37,738.5	43,423.1	55,985.5	76,658.7	100,036.1	127,422.3	133,976.6
Australia.....	1,736.4	1,735.9	2,095.7	2,071.9	1,952.3	2,236.9	2,018.3	2,449.6	2,542.5	2,822.7	2,846.3	2,859.0	3,031.5	3,591.6	3,394.5
Taiwan.....	6,467.8	10,316.6	15,658.1	15,173.5	16,248.5	15,931.6	17,980.6	20,960.6	27,303.9	29,527.4	35,088.3	38,503.5	46,737.5	66,070.1	59,353.1
Singapore.....	5,287.9	7,886.2	11,223.8	11,898.1	11,803.7	12,889.4	13,400.9	16,945.5	18,594.0	16,685.4	14,945.3	13,182.4	16,209.5	19,079.7	17,547.0
Hong Kong.....	3,921.9	3,985.1	5,668.0	4,007.2	2,809.9	3,337.5	3,397.0	3,277.4	3,055.2	3,144.1	2,638.2	3,064.4	4,004.4	3,640.7	3,336.5
India.....	337.3	881.6	2,083.6	1,955.3	2,089.7	2,574.9	2,384.8	3,180.7	3,407.2	3,253.7	4,542.8	4,357.2	5,013.0	5,991.6	6,209.9
Malaysia.....	1,395.3	2,056.0	6,522.6	8,417.7	11,406.7	13,808.5	16,750.0	22,185.8	27,639.9	30,628.4	31,416.0	31,203.1	38,631.4	53,458.8	55,517.4
Thailand.....	188.9	148.3	2,018.4	4,664.1	5,795.0	6,469.8	5,596.8	3,213.6	4,386.3	4,682.8	6,084.5	5,848.7	7,381.4	9,918.1	9,919.2
Philippines.....	712.3	633.9	1,365.8	1,799.1	2,265.1	2,419.0	2,303.1	2,712.5	3,515.0	3,336.5	3,607.3	3,538.7	3,874.1	4,687.9	4,989.5
Indonesia.....	131.4	149.8	177.3	738.8	697.9	1,477.2	1,532.8	2,175.8	3,121.2	3,852.1	5,145.1	4,957.5	5,480.2	6,509.0	6,633.7
South Africa.....	1,248.9	1,098.5	1,212.6	1,233.6	1,003.8	844.4	822.0	882.3	900.9	852.8	958.9	1,029.7	1,039.5	1,059.3	1,089.1
Value added all countries.....	92,976.3	147,906.2	183,585.2	192,057.0	196,795.8	194,472.7	203,640.9	226,202.9	256,965.2	277,553.4	335,891.3	339,600.2	380,592.3	452,697.7	421,508.0
United States.....	21,132.8	41,851.2	47,878.9	48,870.2	48,881.5	52,222.9	56,823.1	67,736.3	85,095.2	90,030.3	116,510.6	124,390.2	140,064.7	170,020.2	144,875.2
Canada.....	2,192.4	2,556.5	3,420.2	3,295.7	3,272.7	3,549.0	3,498.4	3,832.7	4,400.4	4,208.5	4,836.1	5,424.0	7,225.7	9,349.0	6,205.0
Mexico.....	1,130.6	1,069.1	1,295.3	1,506.6	1,434.1	1,506.2	1,582.8	1,786.1	1,680.6	1,884.5	2,312.1	2,826.3	3,177.5	3,563.3	3,330.4
European Union.....	25,496.8	32,781.2	39,164.2	40,250.9	36,951.0	36,266.3	37,831.0	41,918.1	42,902.7	44,748.0	51,064.3	55,082.5	62,352.6	73,752.5	75,330.4
Germany.....	9,745.6	11,196.9	12,878.8	13,174.7	11,068.7	10,350.2	9,023.5	9,763.2	8,509.1	8,010.7	9,023.4	9,335.4	10,853.7	13,625.1	18,510.5
France.....	2,090.6	3,263.3	3,793.3	3,659.7	3,384.4	3,522.7	3,724.4	3,895.0	4,546.0	5,292.5	7,302.2	8,584.9	9,838.1	10,997.6	14,106.1
United Kingdom.....	5,533.5	6,716.8	6,865.0	6,742.1	6,400.1	6,364.5	6,636.4	7,469.7	8,360.4	8,759.6	9,991.2	10,330.6	11,818.2	13,562.5	9,631.4
Italy.....	1,782.7	2,968.7	4,320.2	4,647.2	4,605.1	4,689.2	5,898.6	6,502.3	6,330.7	6,076.6	5,694.7	5,134.4	4,838.4	5,194.9	4,742.9
Other European Union.....	6,344.5	8,635.5	11,307.0	12,027.2	11,492.8	11,339.6	12,548.1	14,287.9	15,156.7	16,608.6	19,052.8	21,697.2	25,004.4	30,372.5	28,339.5
Brazil.....	4,562.8	4,364.3	5,167.0	4,950.1	4,594.5	5,265.6	6,056.3	4,508.3	3,487.3	3,707.1	3,702.8	3,364.1	2,784.0	3,178.3	3,116.5
Argentina.....	804.4	650.0	474.9	429.1	542.1	736.4	399.7	411.0	295.6	316.4	390.2	395.8	310.3	302.2	283.1
Chile.....	47.8	37.1	46.1	15.5	14.3	20.4	25.4	25.6	32.8	37.4	34.0	27.1	22.2	24.1	24.3
Peru.....	174.5	90.8	77.2	51.9	42.5	32.9	17.7	6.3	6.5	8.7	9.2	8.7	7.9	8.1	8.0
Costa Rica.....	11.9	15.9	20.4	24.4	8.2	12.2	15.6	18.1	14.9	15.8	19.5	24.4	13.7	12.3	12.4
Japan.....	22,106.1	43,217.7	56,303.0	60,029.4	65,291.4	58,500.8	57,070.0	59,544.1	67,123.1	74,905.3	90,358.9	76,333.3	73,973.0	78,785.2	73,279.6
China.....	989.0	2,824.4	4,036.4	3,721.5	3,938.6	4,546.3	6,467.6	8,004.8	6,924.8	9,021.0	11,397.0	12,419.8	15,570.3	17,238.3	19,297.2
South Korea.....	1,167.8	1,983.9	4,480.7	5,212.6	5,497.5	5,548.7	6,534.5	8,538.5	11,408.3	11,883.8	15,234.6	19,065.3	27,301.8	35,273.3	37,096.9
Australia.....	613.2	729.7	744.7	661.4	633.0	745.6	634.0	774.8	805.1	753.0	816.3	852.3	889.1	1,053.4	994.1
Taiwan.....	1,791.7	2,855.0	4,174.1	4,459.6	4,702.2	4,668.2	5,240.6	5,910.0	7,349.8	8,953.6	10,229.0	11,471.0	13,569.3	17,909.0	15,857.9
Singapore.....	1,633.1	2,486.6	3,030.9	3,116.6	3,188.7	3,466.8	3,807.3	4,733.6	5,445.2	4,889.4	4,544.0	3,928.9	5,289.9	6,249.5	5,754.5
Hong Kong.....	1,039.9	813.8	1,301.7	902.1	855.0	1,025.4	1,082.6	1,181.6	1,174.4	1,080.5	981.9	924.0	1,264.9	1,186.0	1,089.1
India.....	88.0	231.3	459.4	394.4	510.5	571.9	538.5	898.2	631.6	666.1	805.6	836.9	961.2	1,146.6	1,187.2
Malaysia.....	379.3	644.7	1,348.6	1,748.1	2,373.4	2,989.3	3,497.3	4,444.0	5,322.6	6,905.7	7,469.0	7,278.0	8,999.0	12,438.7	12,927.7
Thailand.....	85.4	73.6	542.1	1,933.0	3,332.7	3,383.2	1,177.4	993.6	1,356.3	1,447.9	1,881.3	1,808.4	2,282.3	3,066.7	3,069.8
Philippines.....	267.9	165.8	346.7	707.2	900.1	774.0	766.9	838.7	1,160.2	1,214.5	1,323.4	1,298.2	1,421.2	1,724.0	1,839.3
Indonesia.....	29.8	38.8	56.4	224.7	243.6	592.2	383.3	652.4	762.6	937.6	1,610.3	1,509.3	1,972.0	2,254.1	2,298.6
South Africa.....	600.9	397.0	331.4	355.5	329.6	329.2	319.1	351.5	345.9	327.8	366.4	391.9	395.1	401.8	414.0
Exports all countries.....	91,648.6	159,209.4	267,509.2	313,528.6	347,624.9	390,411.3	428,513.3	536,756.2	681,934.4	753,950.4	879,206.8	932,475.2	1,095,712.1	1,407,564.8	1,276,935.1
United States.....	15,307.8	22,858.7	44,018.7	50,800.8	53,727.8	59,159.1	69,037.5	89,704.8	116,746.2	125,174.2	147,339.2	152,392.1	184,506.3	192,321.7	170,829.4
Canada.....	1,529.4	3,966.1	4,295.3	5,102.5	5,860.7	7,368.7	7,260.3	8,618.9	10,786.4	14,538.6	17,672.7	17,926.2	21,366.3	35,549.4	26,702.8
Mexico.....	32.3	1,876.1	204.5	196.8	337.2	8,986.6	9,917.8	13,856.4	17,839.1	21,146.8	25,520.2	31,778.0	38,161.9	52,573.1	43,444.9
European Union.....	29,502.5	40,862.5	63,615.1	78,948.4	84,661.2	90,084.3	100,748.2	126,116.0	160,799.2	188,953.8	226,740.5	250,009.2	283,299.3	366,718.4	343,577.6
Germany.....	8,308.9	11,654.1	18,487.6	20,999.0	22,841.9	23,739.2	23,823.7	30,692.3	35,878.1	40,207.2	46,737.2	50,393.1	58,823.1	76,535.4	71,526.0
France.....	3,226.6	5,613.1	8,656.6	11,401.8	12,566.5	13,013.2	14,219.1	16,699.9	22,350.5	25,247.7	32,192.6	40,294.1	42,926.6	56,882.0	53,554.9
United Kingdom.....	3,626.7	6,362.4	11,242.0	14,562.7	15,997.2	17,571.6	21,961.7	27,005.6	37,408.9	42,840.7	42,800.8	47,690.5	50,655.7	66,572.5	62,500.1

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Italy	1,922.5	3,330.3	4,849.1	5,915.2	6,174.1	6,557.4	7,423.5	8,035.3	10,055.0	10,885.1	11,920.8	13,106.0	13,991.4	18,128.4	16,577.4
Other European Union.....	12,417.8	13,902.5	20,379.8	26,069.8	27,081.5	29,203.0	33,320.3	43,682.9	55,106.8	69,773.1	93,089.2	98,525.6	116,902.5	148,600.1	139,419.1
Brazil.....	381.8	698.0	1,108.2	1,063.8	947.8	958.3	924.8	968.0	920.9	1,140.3	1,381.5	1,528.9	2,011.7	4,528.2	3,983.0
Argentina.....	31.2	12.6	6.8	10.4	16.4	23.0	23.8	95.3	174.6	125.1	177.7	139.7	124.8	137.8	125.9
Chile.....	5.3	0.3	0.9	1.2	2.1	2.7	6.1	6.3	8.5	7.7	10.4	14.7	31.0	32.3	28.7
Peru	0.2	1.8	0.1	2.1	0.8	0.1	0.3	0.8	1.1	2.8	2.5	4.6	15.2	46.1	35.0
Costa Rica.....	3.8	0.1	0.4	0.1	0.3	1.2	1.4	0.5	1.6	3.8	159.7	663.1	115.9	108.6	83.1
Japan.....	27,275.7	58,938.3	76,744.7	83,299.0	91,952.8	94,641.0	92,566.8	99,996.8	115,656.3	110,667.5	118,939.8	116,752.9	132,727.0	167,473.6	149,547.4
China.....	99.2	210.7	2,120.8	5,000.7	6,041.4	8,044.2	9,265.3	13,382.6	17,611.8	20,664.8	25,509.6	29,582.6	38,816.7	59,671.4	57,520.3
South Korea.....	2,363.0	5,494.4	15,842.1	17,422.5	21,015.6	23,647.4	23,439.4	30,043.9	42,624.1	45,790.8	56,005.9	61,890.2	78,284.6	98,188.2	86,955.2
Australia.....	114.3	116.6	313.0	456.6	476.1	425.5	467.7	623.6	1,065.7	1,189.6	1,677.2	1,317.5	1,280.6	1,926.1	1,761.2
Taiwan.....	4,369.8	5,504.8	11,215.7	11,530.9	12,409.6	13,880.1	16,289.1	19,488.9	26,066.1	29,147.0	36,402.8	40,036.7	51,331.6	79,184.5	72,221.0
Singapore.....	3,740.0	5,255.9	14,839.0	18,091.4	20,906.8	23,715.3	27,647.5	41,449.0	53,766.5	57,785.6	61,575.6	58,737.8	68,707.8	94,502.7	86,288.5
Hong Kong.....	2,818.8	5,480.7	13,817.4	16,930.9	18,856.4	22,311.6	26,097.2	33,965.8	43,651.8	45,051.0	50,674.0	48,312.0	53,904.6	73,959.1	70,748.7
India.....	23.4	18.7	48.7	65.1	77.4	109.8	128.8	182.3	427.4	521.0	386.6	364.5	510.4	838.5	761.2
Malaysia.....	1,349.2	3,961.7	10,484.3	14,216.3	17,529.3	21,163.5	26,574.7	34,652.8	43,998.9	49,192.6	51,530.4	52,140.6	62,659.6	75,498.2	66,871.9
Thailand.....	16.3	12.4	2,226.8	3,735.5	5,147.8	6,384.2	6,887.7	9,036.0	10,990.6	11,875.3	13,835.9	14,302.7	16,875.3	24,696.3	22,076.1
Philippines.....	79.9	392.0	1,931.8	994.9	1,354.2	1,751.4	2,245.7	2,938.7	4,055.8	13,291.4	20,675.0	27,538.0	31,188.9	34,277.7	31,562.4
Indonesia.....	112.1	155.2	132.1	238.5	496.8	1,300.2	1,944.4	3,006.2	3,291.3	4,407.5	4,096.9	3,684.8	4,167.0	6,285.3	5,913.3
South Africa.....	7.0	199.4	23.1	24.6	42.1	101.5	148.6	132.7	225.2	273.6	346.2	520.3	551.5	687.5	636.8
Percent															
Import penetration all countries.....	40.3	45.8	55.1	61.4	61.3	76.9	79.7	87.9	95.2	98.0	96.9	103.7	106.2	109.8	110.9
United States.....	33.6	49.4	58.0	63.6	67.6	72.1	71.1	72.5	69.9	70.0	65.9	67.0	66.2	60.0	63.2
Canada.....	55.9	89.1	79.4	85.7	92.5	92.1	89.6	89.3	92.2	115.4	119.2	103.9	114.1	167.8	166.3
Mexico.....	20.8	44.1	43.0	44.2	52.2	135.6	152.6	170.9	147.3	148.2	138.4	141.9	166.7	227.5	189.2
European Union.....	61.1	58.1	78.7	95.3	96.6	104.8	105.3	114.5	131.1	144.1	149.3	150.3	146.2	146.6	140.8
Germany.....	63.2	72.1	104.6	114.4	98.0	109.3	108.9	123.6	141.6	164.2	185.4	190.8	181.7	161.8	125.9
France.....	78.2	67.5	95.7	125.5	129.6	133.0	134.6	139.6	165.2	155.8	135.5	138.1	123.7	123.0	99.5
United Kingdom.....	36.2	41.9	68.3	87.0	97.5	110.4	129.3	143.2	181.8	179.7	156.4	178.0	155.1	162.0	204.2
Italy.....	55.6	52.4	65.1	70.6	74.4	74.8	63.6	64.0	66.1	72.1	76.3	86.5	99.3	106.9	106.7
Other European Union.....	75.1	62.6	73.6	91.0	95.9	104.9	102.5	113.7	127.2	145.1	166.4	150.2	150.2	153.1	160.4
Brazil.....	9.9	12.1	21.3	27.1	25.8	24.2	26.5	38.7	54.3	60.0	66.8	67.7	59.6	73.5	63.9
Argentina.....	29.9	26.5	28.5	33.1	52.2	61.4	69.7	74.8	79.2	81.4	80.9	81.9	90.7	99.8	97.4
Chile.....	48.7	36.2	46.7	56.5	63.9	69.6	69.8	76.5	91.1	92.5	98.2	96.5	91.2	91.9	80.8
Peru.....	17.9	21.5	26.7	44.2	58.9	60.8	63.5	85.8	97.6	95.1	97.6	96.1	87.6	94.5	92.4
Costa Rica.....	56.6	17.9	27.9	26.5	59.5	61.7	65.4	65.3	69.5	74.5	205.0	254.7	116.5	119.8	116.9
Japan.....	7.6	8.1	12.7	14.8	13.5	17.0	21.1	27.4	33.4	31.7	26.6	35.4	50.9	70.7	72.9
China.....	29.0	50.3	34.9	42.9	46.7	53.4	57.9	53.0	70.5	59.7	60.9	66.7	69.9	89.0	81.3
South Korea.....	71.9	90.4	93.8	85.1	104.5	125.0	95.0	94.1	113.1	97.4	100.1	96.2	84.4	82.7	67.7
Australia.....	37.4	50.8	61.2	65.0	67.2	63.6	64.9	71.9	83.0	87.3	86.2	74.4	78.4	75.4	70.2
Taiwan.....	182.6	54.2	72.1	77.4	76.1	85.7	87.7	89.0	90.6	96.8	103.6	103.9	108.9	131.1	137.0
Singapore.....	213.1	72.7	189.3	194.1	211.9	201.6	206.2	303.0	331.6	469.4	685.4	847.3	837.5	967.5	943.3
Hong Kong.....	89.9	217.9	422.0	500.1	401.8	307.7	447.6	750.7	816.5	777.5	656.2	785.3	938.9	940.1	914.0
India.....	50.4	54.0	42.8	37.0	26.4	24.9	27.6	29.6	39.9	42.7	37.4	38.6	40.0	48.2	44.8
Malaysia.....	176.1	275.0	290.0	312.1	199.4	214.0	220.8	173.4	175.0	176.7	182.4	193.1	188.2	148.9	126.4
Thailand.....	52.4	69.0	101.9	79.6	84.6	92.3	115.0	206.4	179.2	200.1	190.7	247.3	211.7	231.6	204.1
Philippines.....	34.3	74.5	166.1	62.6	63.5	75.3	92.1	102.9	113.3	478.9	830.9	902.5	1,091.4	1,004.0	885.1
Indonesia.....	108.7	96.6	72.1	58.8	76.8	84.3	109.7	170.1	107.1	116.0	79.7	138.4	85.6	229.3	220.9
South Africa.....	29.7	37.3	35.3	40.4	50.6	63.3	67.7	77.4	87.3	83.1	86.2	84.6	81.2	82.0	72.1
Millions of 1997 U.S. dollars															
Imports all countries.....	84,438.9	152,897.4	260,314.9	304,162.7	338,179.1	379,892.1	420,192.8	525,324.8	667,591.9	738,234.9	861,499.6	929,723.8	1,098,514.4	1,426,196.7	1,287,476.7
United States.....	15,565.9	48,118.0	60,414.3	61,116.4	65,658.9	82,030.7	90,075.0	107,814.7	131,371.0	139,587.1	161,365.5	182,086.2	214,166.3	283,534.6	206,129.4
Canada.....	3,395.7	5,484.5	9,247.4	11,346.4	12,977.8	13,278.7	13,759.4	17,466.7	21,396.3	22,586.7	25,738.6	25,886.9	32,142.4	32,911.0	31,441.3
Mexico.....	1,385.5	2,544.8	5,443.4	6,461.6	7,219.8	10,031.1	10,860.4	14,163.4	14,743.3	17,515.4	22,552.4	29,600.0	38,247.9	42,860.9	41,167.4
European Union.....	34,121.9	44,185.6	86,439.0	107,343.5	114,420.7	115,576.8	119,058.9	140,734.3	173,852.3	193,093.3	228,221.1	259,934.5	296,562.1	376,517.3	358,519.4

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Millions of 1997 U.S. dollars														
Germany	8,480.8	10,911.6	19,313.1	27,279.2	30,475.7	29,927.4	31,170.0	37,884.6	45,608.1	46,066.2	48,478.8	56,077.3	61,805.3	79,867.6	76,481.6
France	4,375.5	5,195.3	10,881.8	14,166.3	15,028.7	14,364.9	15,395.1	17,844.7	22,019.7	24,239.0	29,585.2	36,443.5	40,652.6	51,078.3	48,462.5
United Kingdom	4,789.6	8,832.9	17,530.1	18,452.9	18,215.5	19,368.3	21,391.3	25,121.7	32,075.8	39,521.1	43,969.8	48,293.1	55,813.1	70,439.0	66,282.6
Italy	3,497.5	4,551.3	10,081.7	12,997.1	13,765.9	13,241.4	11,054.6	13,589.6	15,401.0	15,817.9	18,272.7	21,912.6	23,287.2	28,273.0	27,113.1
Other European Union	12,978.5	14,694.6	28,632.4	34,448.0	36,934.9	38,674.9	40,047.8	46,293.6	58,747.7	67,449.1	87,914.5	97,208.1	115,003.9	146,859.5	140,179.7
Brazil	894.1	1,028.3	2,304.9	2,576.4	2,396.0	2,342.0	3,228.5	4,781.7	7,629.7	9,258.8	11,334.1	10,339.4	10,561.2	11,864.0	10,420.2
Argentina	1,444.4	442.3	410.4	466.7	1,259.4	2,602.5	2,784.3	3,455.9	2,579.3	2,877.0	4,006.8	4,125.0	3,893.2	4,970.8	4,648.5
Chile	397.6	124.0	712.7	676.8	953.2	980.9	1,046.1	1,156.3	1,543.7	1,612.0	2,016.0	2,434.0	2,138.5	2,244.2	2,050.0
Peru	219.2	118.0	90.0	135.2	194.7	260.8	266.2	458.1	863.5	983.1	1,119.9	938.1	770.1	880.9	848.0
Costa Rica	53.4	16.2	40.4	43.6	57.8	64.1	93.9	104.8	90.0	113.1	214.0	966.7	573.3	531.2	565.3
Japan	1,908.0	3,445.7	10,427.6	13,017.7	13,416.9	14,170.4	18,563.8	25,846.3	39,885.0	45,523.7	46,231.1	44,391.3	55,698.2	75,795.3	70,273.0
China	783.4	6,923.9	6,906.7	7,107.1	8,793.7	11,907.4	18,818.3	24,180.6	27,867.4	28,224.3	35,356.9	44,365.5	59,026.5	87,238.1	92,221.5
South Korea	1,755.3	3,699.1	8,287.0	9,715.1	11,057.6	11,827.2	12,230.4	15,687.6	21,433.0	25,956.0	31,442.4	28,214.9	45,273.2	57,949.9	51,740.0
Australia	1,206.4	2,434.6	3,248.0	3,259.3	3,165.3	3,630.3	4,027.3	5,256.0	7,296.0	7,787.8	7,297.3	6,844.6	9,048.1	11,437.1	10,401.1
Taiwan	1,925.7	2,976.4	9,764.3	11,390.2	12,773.8	15,873.3	16,661.4	19,074.5	26,288.7	28,507.6	37,770.1	39,692.9	48,419.0	60,413.4	54,926.5
Singapore	2,681.4	4,958.1	12,306.9	16,106.9	18,754.8	21,306.9	26,236.0	36,472.5	48,590.2	52,144.6	54,596.1	50,997.8	59,053.5	83,709.3	76,739.8
Hong Kong	2,481.6	4,935.6	12,163.6	16,583.6	20,708.7	26,358.0	27,728.1	33,793.2	43,663.1	46,442.9	56,672.4	53,235.7	56,727.6	79,724.6	76,832.3
India	269.3	835.8	1,444.6	1,037.7	722.8	825.3	918.5	1,314.3	2,074.1	2,141.5	2,480.0	2,441.0	2,886.8	4,421.5	4,140.5
Malaysia	1,453.0	3,657.0	7,391.2	9,168.9	11,994.7	12,688.3	16,751.4	27,027.5	37,484.6	40,732.2	44,536.3	45,978.7	55,763.2	75,348.4	71,702.8
Thailand	484.8	863.7	3,113.3	4,375.1	5,059.2	5,920.8	7,126.1	10,362.9	13,871.3	14,606.6	16,293.6	13,993.6	17,213.4	24,731.8	23,182.7
Philippines	520.4	628.8	2,267.5	1,595.9	1,876.9	2,245.8	2,932.0	4,052.7	5,128.8	13,148.6	19,402.8	25,034.2	30,067.9	30,494.0	26,030.3
Indonesia	464.5	622.5	886.3	1,185.8	1,922.3	2,587.9	2,427.4	1,938.9	2,546.0	3,925.7	4,114.3	1,406.1	1,070.0	2,139.2	1,902.1
South Africa	725.8	898.4	836.8	913.5	1,010.7	1,201.6	1,368.1	2,277.2	3,087.2	3,331.0	3,822.9	5,476.6	4,341.2	4,730.6	4,224.6
Apparent consumption all countries	209,762.3	333,825.6	472,467.9	495,452.6	551,954.7	493,772.9	527,260.1	597,836.6	701,029.1	753,555.4	889,544.6	896,998.3	1,034,898.6	1,298,650.1	1,160,955.7
United States	46,392.8	97,393.7	104,091.3	96,079.4	97,201.6	113,853.1	126,630.3	148,762.5	187,842.2	199,443.3	244,888.3	271,686.0	323,654.5	472,699.4	326,177.0
Canada	6,070.9	6,156.0	11,641.4	13,245.8	14,028.6	14,420.1	15,358.2	19,559.0	23,217.4	19,575.4	21,600.0	24,909.7	28,173.5	19,614.9	18,909.4
Mexico	6,667.9	5,769.4	12,663.0	14,623.6	13,820.9	7,396.0	7,119.4	8,288.3	10,009.5	11,822.5	16,295.9	20,865.4	22,948.4	18,837.1	21,755.6
European Union	55,808.8	76,098.1	109,886.4	112,632.0	118,396.2	110,305.0	113,049.0	122,901.5	132,656.2	134,031.6	152,874.1	172,990.9	202,905.6	256,765.2	254,710.2
Germany	13,416.1	15,131.2	18,469.1	23,848.6	31,111.3	27,393.2	28,627.2	30,640.9	32,210.1	28,056.1	26,149.9	29,394.9	34,012.5	49,368.5	60,745.6
France	5,598.6	7,694.6	11,366.7	11,284.4	11,595.2	10,801.1	11,438.6	12,782.5	13,329.2	15,561.1	21,829.2	26,394.6	32,858.4	41,535.7	48,715.9
United Kingdom	13,226.5	21,101.0	25,660.4	21,211.1	18,678.5	17,546.1	16,538.9	17,539.1	17,640.2	21,995.9	28,120.7	27,126.5	35,996.8	43,477.5	32,460.5
Italy	6,287.6	8,694.0	15,497.9	18,423.1	18,511.3	17,707.6	17,390.0	21,230.0	23,295.6	21,942.8	23,946.4	25,332.4	23,446.2	26,439.9	25,404.8
Other European Union	17,280.1	23,477.4	38,892.2	37,864.8	38,500.0	36,857.0	39,054.2	40,708.9	46,181.0	46,475.9	52,827.9	64,742.6	76,591.7	95,943.6	87,383.4
Brazil	9,027.8	8,489.1	10,848.3	9,513.0	9,289.1	9,678.7	12,163.3	12,368.1	14,059.9	15,414.3	16,968.3	15,276.9	17,708.2	16,136.6	16,296.0
Argentina	4,838.9	1,668.3	1,442.4	1,411.6	2,413.1	4,241.1	3,993.6	4,618.9	3,257.9	3,533.6	4,950.6	5,037.3	4,294.1	4,982.7	4,771.0
Chile	817.1	342.7	1,526.2	1,197.2	1,492.0	1,409.9	1,499.6	1,511.1	1,695.1	1,743.6	2,052.2	2,522.1	2,346.1	2,441.1	2,537.1
Peru	1,222.8	548.0	337.1	306.1	330.3	428.9	419.2	534.0	884.9	1,033.9	1,147.0	976.1	879.1	932.5	917.6
Costa Rica	94.4	90.6	144.8	164.7	97.3	103.9	143.5	160.4	129.5	151.9	104.4	379.5	492.0	443.4	483.6
Japan	25,124.0	42,623.2	82,422.4	88,265.3	99,070.2	83,383.2	87,794.0	94,311.6	119,445.6	143,487.3	173,983.3	125,387.5	109,330.9	107,214.4	96,411.9
China	2,704.7	13,757.2	19,819.1	16,564.9	18,846.4	22,284.1	32,515.4	45,643.0	39,533.7	47,283.1	58,077.0	66,524.4	84,417.5	98,001.9	113,497.2
South Korea	2,440.7	4,089.9	8,833.8	11,414.3	10,580.3	9,460.4	12,873.9	16,678.8	18,956.5	26,658.8	31,422.0	29,332.6	53,655.1	70,093.3	76,478.7
Australia	3,225.9	4,788.6	5,303.9	5,018.4	4,710.0	5,709.6	6,204.2	7,308.1	8,787.1	8,922.3	8,466.4	9,201.1	11,546.0	15,160.1	14,812.6
Taiwan	1,054.6	5,491.6	13,546.0	14,721.4	16,796.2	18,519.3	18,989.9	21,441.0	29,006.6	29,463.0	36,455.6	38,220.6	44,448.2	46,072.4	40,107.7
Singapore	1,258.6	6,818.7	6,501.8	8,300.1	8,851.2	10,569.9	12,723.9	12,037.0	14,654.8	11,107.7	7,965.8	6,019.2	7,051.0	8,651.8	8,135.5
Hong Kong	2,759.6	2,265.4	2,882.4	3,316.2	5,153.7	8,565.5	6,194.9	4,501.7	5,347.7	5,973.3	8,636.6	6,779.3	6,042.0	8,480.7	8,405.8
India	534.5	1,549.1	3,371.7	2,808.2	2,738.4	3,317.4	3,327.0	4,439.2	5,205.0	5,015.4	6,636.3	6,326.8	7,220.6	9,183.5	9,251.7
Malaysia	825.3	1,329.6	2,548.9	2,937.7	6,017.0	5,929.0	7,586.3	15,586.0	21,426.4	23,056.1	24,421.9	23,817.2	29,623.7	50,591.1	56,717.5
Thailand	925.4	1,252.6	3,055.5	5,499.4	5,982.3	6,413.8	6,197.6	5,020.0	7,741.6	7,300.6	8,542.2	5,657.5	8,131.4	10,676.8	11,361.5
Philippines	1,515.8	844.1	1,364.9	2,548.0	2,955.3	2,983.8	3,183.9	3,938.1	4,528.5	2,745.5	2,335.1	2,773.9	2,754.9	3,037.2	2,941.0
Indonesia	427.4	644.3	1,229.7	2,016.3	2,503.8	3,071.9	2,213.8	1,140.1	2,378.3	3,383.6	5,162.4	1,015.8	1,249.9	933.0	861.1
South Africa	2,441.0	2,409.5	2,370.0	2,261.2	1,996.4	1,897.7	2,020.9	2,943.0	3,537.3	4,009.3	4,435.6	6,473.0	5,347.3	5,766.8	5,862.1

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Drugs and medicines															
Production all countries	139,183.6	182,402.3	235,339.7	241,391.9	256,673.2	271,478.2	281,514.0	291,838.7	307,717.0	329,157.8	353,403.2	358,016.2	387,027.6	398,326.8	398,348.7
United States.....	27,962.0	38,233.9	55,641.9	58,324.8	63,103.6	66,685.1	68,210.7	72,627.4	76,580.6	83,141.0	91,217.6	91,345.7	101,398.5	107,929.3	100,181.6
Canada.....	1,372.4	1,987.6	2,610.9	2,847.4	2,563.3	3,118.1	3,401.2	3,191.5	3,131.3	3,261.2	4,039.5	4,166.5	4,411.4	4,239.0	5,555.9
Mexico.....	1,587.7	1,929.9	2,579.1	2,741.7	2,747.3	3,016.6	3,276.9	3,140.1	3,347.7	3,722.6	4,392.5	5,130.0	5,628.6	6,085.3	5,851.1
European Union.....	42,582.4	58,577.1	71,092.6	74,477.6	82,717.2	87,917.0	90,969.2	95,295.4	104,339.4	107,889.3	114,641.7	120,337.1	131,518.9	134,876.5	136,272.4
Germany.....	7,704.5	11,469.7	12,621.5	13,369.2	18,453.9	18,536.5	18,116.2	19,254.5	20,351.6	21,282.9	22,380.3	23,252.6	24,236.5	23,887.2	22,095.0
France.....	10,304.9	12,742.3	17,407.7	18,189.1	19,675.5	21,208.9	21,616.9	21,789.9	24,212.7	24,237.8	26,372.9	27,246.4	29,983.7	31,189.4	29,579.8
United Kingdom.....	6,789.4	8,383.5	10,553.0	10,818.4	11,896.9	13,768.0	14,238.6	15,342.7	16,646.0	17,026.6	17,754.4	18,024.8	17,918.8	19,345.1	21,891.3
Italy.....	9,547.1	13,682.7	14,677.3	15,383.7	14,112.5	14,279.9	15,575.3	16,071.7	17,538.4	17,376.3	16,952.5	18,249.8	20,519.8	19,148.2	19,547.9
Other European Union.....	8,236.6	12,299.1	15,833.2	16,717.2	18,578.4	20,123.9	21,422.2	22,836.6	25,590.8	27,965.7	31,181.7	33,563.4	38,860.1	41,306.7	43,158.4
Brazil.....	12,662.0	13,059.9	13,658.1	10,772.9	9,685.6	11,230.2	12,421.5	11,555.1	10,872.4	10,702.1	11,535.5	11,916.8	11,531.5	10,676.3	10,573.4
Argentina.....	2,618.0	2,371.5	1,793.9	2,350.0	2,593.5	3,217.4	2,849.3	3,260.5	3,073.9	3,262.3	3,722.1	4,034.6	3,595.0	3,684.4	3,014.8
Chile.....	426.2	463.2	582.7	587.9	625.8	700.8	811.3	767.8	689.8	629.0	633.4	686.3	613.8	676.7	670.4
Peru.....	774.5	516.5	282.8	376.5	450.1	497.0	507.2	449.8	472.7	500.6	556.1	503.7	507.1	534.0	530.1
Costa Rica.....	76.4	90.0	75.1	62.8	82.8	90.5	136.2	130.1	102.4	77.4	83.6	91.3	102.1	108.8	103.0
Japan.....	27,753.0	35,344.3	45,358.7	46,816.4	46,890.3	47,807.9	49,047.4	47,625.5	50,185.2	55,365.3	57,133.5	57,781.5	59,339.3	55,255.1	56,740.4
China.....	2,434.7	4,178.8	7,067.8	7,306.7	9,027.1	10,704.9	11,555.3	11,990.5	11,729.7	13,879.3	15,226.4	15,860.0	17,617.6	20,447.9	22,305.8
South Korea.....	2,267.3	3,943.7	6,497.7	7,263.8	7,391.9	8,209.1	9,350.5	10,189.4	9,700.9	11,350.7	11,865.2	9,023.8	11,097.7	13,670.5	14,754.7
Australia.....	1,206.6	1,330.7	1,592.9	1,804.4	2,266.6	2,458.7	2,618.3	2,669.8	2,762.5	2,915.2	3,482.2	3,732.9	3,925.1	3,496.3	3,688.9
Taiwan.....	457.0	800.4	1,091.6	1,113.9	1,218.1	1,436.4	1,320.4	1,506.1	1,513.4	1,624.1	1,785.0	1,616.5	1,587.0	1,348.1	1,236.6
Singapore.....	308.0	485.9	819.2	848.5	1,140.9	1,096.6	1,094.0	1,031.8	2,053.4	2,188.3	2,627.5	2,426.9	3,474.9	3,554.6	3,823.4
Hong Kong.....	102.7	96.7	129.1	115.7	136.5	146.5	176.5	189.0	213.0	229.5	214.0	171.6	188.6	171.3	165.9
India.....	1,328.8	1,775.8	2,697.4	2,788.8	3,146.8	3,615.4	4,365.9	4,610.7	5,070.4	5,634.2	6,012.5	5,679.5	6,736.4	6,462.9	6,274.7
Malaysia.....	33.6	59.6	92.5	91.8	109.0	123.4	123.7	128.6	159.5	158.4	177.7	169.9	183.2	194.6	179.6
Thailand.....	969.4	953.4	1,151.5	330.9	709.9	813.2	645.2	586.7	783.1	900.4	1,087.0	1,066.1	1,164.9	1,284.0	1,319.9
Philippines.....	904.5	549.3	1,023.9	945.2	946.0	1,041.3	1,001.9	981.0	1,013.3	1,190.8	1,223.3	1,117.4	1,165.5	1,096.3	1,176.9
Indonesia.....	236.7	583.3	714.4	868.4	1,177.9	843.5	1,141.1	1,534.6	1,380.5	1,470.9	1,314.3	1,056.0	1,215.9	1,448.1	2,339.4
South Africa.....	1,138.6	867.3	1,093.0	1,129.7	1,114.0	1,124.2	1,152.4	1,189.8	1,258.4	1,284.3	1,300.4	1,170.7	1,116.5	1,127.3	1,160.1
Value added all countries.....	64,302.2	84,514.1	108,203.5	110,319.1	117,472.4	125,697.4	133,369.2	139,790.5	142,364.8	153,998.8	161,780.1	157,667.7	174,401.0	178,341.9	187,069.8
United States.....	12,499.9	19,729.1	26,925.8	28,897.7	31,733.2	35,319.8	36,299.6	41,249.2	42,122.0	46,533.3	49,374.8	47,596.5	54,866.7	58,595.8	63,938.7
Canada.....	577.2	1,010.4	1,390.6	1,574.9	1,397.6	1,602.7	1,750.7	1,561.9	1,463.4	1,480.2	1,498.6	1,425.2	1,689.3	1,623.3	2,121.8
Mexico.....	712.2	945.8	1,322.3	1,387.5	1,386.4	1,544.8	1,703.9	1,618.0	1,728.7	1,921.5	2,247.8	2,633.3	2,910.8	3,147.1	3,026.2
European Union.....	17,287.9	22,477.4	28,594.2	29,936.3	33,736.2	35,170.9	36,703.4	38,732.2	41,963.8	43,183.2	45,266.4	47,245.1	52,889.7	53,324.6	54,235.7
Germany.....	3,058.1	4,735.2	5,700.4	5,959.2	8,459.7	8,282.7	8,156.0	8,627.2	9,022.5	9,447.2	9,171.4	9,084.6	9,825.4	9,683.7	7,842.9
France.....	4,329.8	4,424.3	5,235.3	5,775.5	5,822.8	6,074.7	6,468.1	6,663.9	7,938.9	7,906.7	8,808.3	8,996.0	10,108.1	9,651.9	9,551.3
United Kingdom.....	3,163.6	4,062.9	5,578.6	5,705.0	6,187.0	6,641.7	6,758.5	7,051.1	7,249.1	7,335.8	7,581.4	7,905.5	8,228.8	9,022.3	10,200.4
Italy.....	3,445.5	4,271.0	5,561.6	5,548.4	5,123.9	5,277.7	5,781.7	6,320.0	6,338.3	6,584.7	6,342.0	6,872.6	7,933.1	7,409.5	7,565.3
Other European Union.....	3,291.0	4,984.1	6,518.2	6,948.3	8,142.9	8,894.1	9,539.1	10,070.1	11,415.0	11,908.8	13,363.4	14,386.4	16,794.3	17,557.1	19,075.9
Brazil.....	9,943.2	10,380.3	10,702.5	8,566.2	7,701.6	8,474.8	11,327.4	9,713.0	8,368.0	8,236.9	8,878.4	9,171.8	8,875.3	8,217.1	8,136.9
Argentina.....	1,320.2	1,648.5	997.6	972.9	1,073.7	1,332.0	988.8	1,127.5	1,078.8	1,114.5	1,271.7	1,378.4	1,228.2	1,258.8	1,025.5
Chile.....	301.0	305.5	320.5	324.3	376.0	418.3	488.8	461.9	432.7	385.4	373.0	410.9	367.1	404.9	401.3
Peru.....	318.3	173.8	144.8	213.0	204.6	226.4	230.4	195.4	215.5	222.1	246.7	223.5	225.0	236.9	234.9
Costa Rica.....	27.8	30.0	24.6	20.6	34.1	33.8	51.3	46.9	35.6	28.8	32.5	32.8	35.8	39.4	38.1
Japan.....	13,667.0	17,282.3	23,192.6	23,281.6	23,141.5	24,010.1	24,867.0	24,636.1	24,891.3	28,075.6	28,010.9	24,371.8	24,907.0	23,190.9	23,778.2
China.....	961.3	1,062.7	1,817.9	1,924.4	2,612.5	3,014.9	3,830.6	3,448.8	3,229.6	4,303.7	4,964.0	5,001.7	6,058.3	7,045.5	7,700.8
South Korea.....	789.0	1,335.1	2,403.0	2,707.0	2,681.8	3,024.2	3,636.1	3,739.5	3,639.0	4,183.9	4,303.1	3,218.7	3,960.5	4,750.9	5,125.4
Australia.....	457.8	542.4	572.0	619.4	771.2	795.2	850.1	862.4	896.3	912.6	1,138.7	1,144.9	1,188.7	1,058.8	1,115.7
Taiwan.....	134.5	243.4	392.8	396.9	422.0	569.9	572.4	624.8	538.3	626.1	716.9	673.6	670.1	541.1	530.0
Singapore.....	200.2	356.5	617.4	672.5	937.9	906.0	923.7	863.6	1,345.8	1,500.6	1,557.6	1,624.8	2,602.9	2,661.1	2,862.2
Hong Kong.....	47.8	38.1	50.7	47.3	60.1	60.3	76.5	68.8	72.6	92.9	91.1	64.5	78.0	69.0	66.8
India.....	364.1	439.7	610.5	615.8	758.1	828.9	1,106.8	1,122.3	1,206.5	1,508.4	1,719.1	1,605.9	1,909.4	1,832.0	1,781.1
Malaysia.....	16.8	26.7	35.2	38.9	43.3	50.2	55.1	61.6	77.8	66.4	79.7	74.7	80.6	85.5	79.0

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Thailand	346.6	358.6	448.4	110.3	360.1	434.3	32.3	243.4	324.9	373.5	451.0	442.3	483.3	532.7	547.8
Philippines.....	276.2	202.2	453.0	456.5	501.3	621.5	583.6	535.7	608.5	753.7	775.9	708.7	739.3	697.0	750.0
Indonesia.....	106.7	167.2	224.3	330.0	526.0	284.2	417.0	664.3	446.3	516.4	472.4	393.6	570.4	579.8	938.0
South Africa.....	172.1	361.5	372.3	362.8	347.2	349.8	362.8	374.6	396.2	404.4	409.4	368.6	351.5	354.9	365.1
Exports all countries.....	43,209.1	46,634.2	70,690.7	82,674.0	91,006.4	106,519.8	112,956.7	120,898.7	132,769.6	142,936.5	162,803.5	185,478.5	200,337.1	201,992.1	217,946.6
United States.....	5,243.0	7,106.0	8,531.6	9,308.0	10,272.1	12,060.3	12,364.5	13,044.3	13,852.2	15,634.3	17,612.7	21,141.6	24,375.8	28,868.5	31,855.6
Canada.....	364.0	447.5	464.6	636.4	618.7	952.0	900.4	1,119.2	1,269.8	1,434.2	2,059.8	2,295.5	2,356.2	2,381.0	2,727.2
Mexico.....	212.5	123.0	299.4	278.4	303.9	544.8	507.9	635.5	840.9	1,165.2	1,352.1	1,545.1	1,602.0	1,693.1	1,830.2
European Union.....	27,997.4	29,820.9	46,986.1	54,979.1	60,069.8	70,659.2	75,788.4	80,858.5	88,743.7	94,188.2	108,852.1	124,500.3	132,584.4	131,703.9	141,323.2
Germany.....	6,953.0	7,338.1	11,843.0	13,578.8	14,620.0	16,175.5	16,818.7	18,663.7	19,077.7	20,325.2	24,308.1	30,076.9	31,143.4	26,758.0	28,676.5
France.....	4,639.0	4,857.5	7,603.9	8,746.3	9,417.8	10,985.3	11,850.9	11,978.4	13,311.9	13,998.1	16,553.3	19,700.8	20,781.8	21,364.3	22,861.9
United Kingdom.....	5,364.7	5,771.6	8,731.5	10,210.4	11,132.5	12,623.4	13,930.2	13,607.3	15,849.0	16,865.8	18,668.4	20,467.7	20,759.3	21,564.8	23,242.4
Italy.....	2,212.4	2,671.4	3,171.8	3,576.4	3,779.0	5,656.4	6,221.3	6,271.5	7,426.0	8,274.3	9,237.2	10,301.6	11,557.5	12,940.2	13,969.1
Other European Union.....	8,828.3	9,182.4	15,635.9	18,867.2	21,120.6	25,218.6	26,967.3	30,337.6	33,079.2	34,724.8	40,085.2	43,953.4	48,342.4	49,076.6	52,573.3
Brazil.....	165.2	189.9	202.3	218.5	276.6	289.1	258.1	295.4	353.3	396.6	460.6	568.4	610.4	536.7	570.5
Argentina.....	151.4	65.5	80.7	91.9	146.1	153.2	193.7	240.3	284.4	407.4	607.3	670.3	698.4	617.4	636.3
Chile.....	0.8	4.8	11.3	25.6	36.4	35.9	41.4	40.7	43.2	48.5	65.9	78.4	69.4	77.7	83.8
Peru.....	16.2	9.0	13.0	11.3	9.4	14.6	14.7	28.7	32.3	43.3	47.5	64.5	49.5	32.9	33.9
Costa Rica.....	26.0	25.3	26.2	30.3	38.6	45.8	47.9	47.5	50.3	51.5	73.4	94.9	93.8	127.8	134.1
Japan.....	1,134.0	1,263.4	2,098.7	2,412.6	2,808.1	3,407.1	3,239.5	3,114.9	3,411.1	3,693.6	4,002.3	4,123.0	4,818.4	4,999.6	5,572.2
China.....	653.6	798.9	1,389.8	1,618.5	1,902.0	2,136.8	1,979.0	2,381.5	2,941.1	2,993.1	3,177.5	3,606.9	3,490.7	3,499.9	3,968.5
South Korea.....	57.5	98.9	203.6	236.9	269.0	337.0	350.5	399.4	444.4	514.0	590.2	654.8	638.8	679.2	726.6
Australia.....	318.1	273.4	451.2	527.6	683.2	830.7	900.0	1,063.0	1,162.0	1,411.3	1,559.6	1,632.5	1,974.1	2,334.6	2,486.9
Taiwan.....	88.5	86.9	138.3	154.8	185.9	199.4	160.0	170.9	176.1	185.5	205.3	169.2	176.0	158.5	170.0
Singapore.....	465.9	352.8	431.4	477.3	513.6	571.3	788.2	988.2	1,149.9	1,193.0	1,232.6	1,244.3	2,352.6	1,841.3	1,957.2
Hong Kong.....	465.5	492.2	1,059.4	1,210.9	1,575.7	1,870.5	1,515.3	1,659.1	1,826.9	1,927.9	1,880.0	1,728.8	1,560.9	1,276.6	1,389.2
India.....	302.3	252.3	354.1	875.3	961.6	1,013.6	1,033.3	1,184.7	1,458.0	1,725.7	1,939.1	2,060.0	2,342.9	1,695.4	1,826.7
Malaysia.....	34.1	43.1	87.1	102.7	114.8	120.2	117.2	145.4	151.0	163.0	145.7	150.0	154.2	153.4	162.3
Thailand.....	60.9	31.6	57.8	74.4	92.3	148.4	295.4	190.5	255.9	208.3	218.1	210.4	220.6	235.6	250.1
Philippines.....	17.9	16.8	20.0	17.9	20.4	25.1	33.3	33.8	36.8	72.9	61.3	57.9	46.0	42.4	45.1
Indonesia.....	40.5	51.7	75.1	78.9	73.6	63.1	58.3	73.2	77.9	94.4	83.6	118.0	153.7	149.5	160.0
South Africa.....	30.3	42.5	15.5	38.4	55.2	85.9	76.1	75.9	95.7	119.2	148.8	191.9	168.0	225.2	244.2
Percent															
Import penetration all countries.....	26.5	22.3	26.0	29.5	29.5	38.4	39.8	41.5	43.1	44.0	46.5	52.2	52.4	51.7	55.7
United States.....	8.4	10.1	10.1	11.0	11.7	14.0	14.8	14.9	15.5	16.3	19.5	25.8	25.7	25.1	31.0
Canada.....	45.4	41.1	46.0	51.2	62.0	61.3	58.6	64.7	70.1	72.5	69.8	70.8	73.2	81.2	74.4
Mexico.....	23.9	16.4	18.1	20.9	24.4	27.2	29.7	35.7	29.7	35.5	35.3	36.1	36.0	38.4	42.7
European Union.....	53.2	41.9	57.5	66.6	66.4	74.9	77.7	80.2	81.8	85.6	93.4	104.5	102.6	102.5	113.5
Germany.....	83.2	59.1	95.1	103.8	73.4	82.8	90.7	98.0	94.4	95.6	116.1	169.4	171.5	130.9	176.5
France.....	26.7	22.6	30.9	37.4	38.1	43.3	45.1	47.3	48.4	52.1	55.2	66.0	65.2	63.9	76.0
United Kingdom.....	43.0	50.3	59.4	68.9	70.8	70.5	90.2	79.2	92.4	102.1	109.6	124.7	129.1	139.6	130.3
Italy.....	20.7	18.4	29.6	35.4	40.0	49.5	43.6	40.7	41.3	48.6	55.3	58.4	57.8	66.3	71.1
Other European Union.....	94.9	72.5	97.2	110.1	111.1	121.9	123.9	134.4	134.3	127.3	132.9	133.0	126.8	127.4	135.0
Brazil.....	3.3	2.6	4.3	7.3	8.6	6.8	7.9	11.5	14.2	18.5	20.2	21.6	22.7	23.7	23.8
Argentina.....	12.2	9.6	10.9	9.6	13.7	16.0	22.5	23.6	23.8	26.5	28.1	30.9	33.5	31.6	38.3
Chile.....	19.0	13.6	16.5	18.4	20.7	22.9	22.8	26.3	33.9	39.7	45.0	45.2	46.8	42.1	41.5
Peru.....	12.1	13.0	24.5	22.3	24.3	27.0	24.5	31.2	39.6	37.4	40.0	49.9	44.5	40.6	42.1
Costa Rica.....	61.3	43.8	56.4	63.1	57.3	61.9	50.3	51.8	60.4	77.8	90.8	103.2	91.7	117.8	127.4
Japan.....	9.7	8.6	12.1	12.0	12.7	14.5	15.1	16.3	15.9	13.6	13.4	12.2	14.0	14.8	14.7
China.....	2.5	6.9	11.4	15.9	17.4	15.6	14.0	14.9	17.8	16.2	15.1	16.3	14.0	11.7	12.0
South Korea.....	8.7	7.7	8.3	8.9	10.7	10.5	10.3	10.4	12.5	12.4	11.6	12.1	11.7	10.4	10.4
Australia.....	35.3	38.8	54.9	55.4	49.1	53.1	52.9	57.6	59.0	65.7	62.4	59.3	62.9	73.1	70.6
Taiwan.....	41.3	33.8	39.4	43.0	44.2	47.3	49.6	47.1	47.2	48.5	47.7	48.8	53.5	56.4	56.9
Singapore.....	354.9	75.5	53.0	55.6	43.9	51.7	71.1	94.9	53.6	52.6	47.4	46.3	50.8	42.5	41.7

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Percent														
Hong Kong.....	216.3	200.7	376.2	326.8	382.3	487.2	342.7	320.3	288.6	340.8	336.6	304.4	315.6	318.7	340.1
India.....	17.3	17.5	15.3	19.3	16.8	18.5	13.7	15.0	17.4	14.6	17.1	19.1	15.8	16.6	19.0
Malaysia.....	142.8	113.3	96.9	102.7	100.4	103.1	101.6	104.5	99.6	102.0	96.2	89.9	89.5	87.4	89.9
Thailand.....	27.0	25.9	30.2	70.6	51.1	54.2	70.0	72.4	69.1	64.1	56.4	45.3	48.8	45.4	46.6
Philippines.....	19.2	22.6	22.8	26.5	25.9	28.6	31.9	36.9	37.6	37.5	39.1	37.8	40.2	38.4	37.3
Indonesia.....	66.4	33.7	30.5	32.5	26.5	36.5	26.6	19.6	26.4	25.1	30.9	24.7	22.3	20.6	14.6
South Africa.....	25.6	25.0	28.9	35.4	38.8	44.9	41.9	44.9	47.1	46.5	51.1	55.4	55.9	55.4	52.3
	Millions of 1997 U.S. dollars														
Imports all countries.....	38,773.5	42,897.9	68,567.5	81,552.8	91,393.6	107,913.0	113,796.9	122,039.7	132,895.7	146,449.0	165,404.6	190,686.1	208,443.5	207,338.4	223,290.2
United States.....	1,950.8	3,395.5	5,196.3	5,971.3	6,921.8	8,743.1	9,596.6	10,363.8	11,540.5	13,268.9	17,879.4	24,347.2	26,986.9	27,269.3	31,941.6
Canada.....	864.2	1,035.1	1,600.2	1,983.6	2,263.4	2,859.1	3,175.2	3,370.1	3,581.3	3,918.8	4,564.0	5,684.3	6,846.0	7,339.2	7,788.9
Mexico.....	423.1	360.2	512.5	662.0	781.6	917.3	1,123.0	1,313.8	1,091.7	1,431.4	1,657.9	2,030.4	2,219.8	2,601.4	2,751.4
European Union.....	19,177.8	19,993.4	35,000.4	43,042.4	48,173.3	57,557.4	58,035.8	62,270.5	68,034.5	75,097.4	81,919.9	95,719.5	105,694.0	103,277.8	109,816.7
Germany.....	4,118.1	4,038.1	6,457.6	7,948.6	9,816.5	10,696.0	10,036.0	11,580.2	12,470.4	13,722.3	13,933.1	17,077.8	18,271.0	16,868.9	17,741.5
France.....	2,169.9	2,308.9	4,643.4	5,998.1	6,639.1	8,076.3	8,399.8	9,114.6	10,296.1	11,138.5	12,102.1	14,542.2	16,155.8	15,825.7	16,784.6
United Kingdom.....	1,636.5	2,328.7	4,032.3	4,575.2	5,184.2	6,358.0	6,949.1	7,293.9	8,084.2	9,157.4	10,391.3	11,629.9	13,840.8	14,387.5	15,251.2
Italy.....	1,933.9	2,559.2	5,013.0	6,297.1	6,592.4	8,034.6	7,395.0	6,896.0	7,272.5	8,426.7	9,540.7	11,104.2	12,285.8	11,991.1	12,732.9
Other European Union.....	9,319.4	8,758.6	14,854.1	18,223.5	19,941.0	24,392.5	25,256.0	27,385.9	29,911.3	32,652.5	35,952.7	41,365.5	45,140.6	44,204.6	47,306.4
Brazil.....	440.4	353.9	607.9	842.5	915.3	818.5	1,079.3	1,505.8	1,774.5	2,369.5	2,810.4	3,096.5	3,554.6	3,345.1	3,531.3
Argentina.....	358.4	254.9	219.0	241.6	385.4	578.0	755.9	922.6	864.8	1,021.6	1,219.0	1,507.0	1,449.4	1,405.9	1,464.4
Chile.....	105.1	84.8	126.3	137.9	164.2	210.6	245.6	279.0	345.7	401.8	464.3	509.1	519.8	492.3	525.4
Peru.....	120.7	92.7	94	110.0	140.9	173.0	167.4	197.7	291.1	278.8	339.0	422.9	384.9	357.4	379.2
Costa Rica.....	56.0	44.4	60.4	55.8	63.3	74.3	89.4	88.7	76.4	90.7	100.6	132.4	126.0	134.5	148.0
Japan.....	2,950.0	3,336.4	5,917.0	6,110.8	6,424.3	7,464.8	7,956.4	8,382.3	8,570.3	8,059.8	8,230.2	7,460.5	8,765.1	8,537.6	8,710.5
China.....	56.2	267.2	757.2	1,089.9	1,511.1	1,595.1	1,560.1	1,646.8	1,866.9	2,085.6	2,138.5	2,397.3	2,298.3	2,230.8	2,467.6
South Korea.....	210.7	321.3	565.5	686.5	843.5	920.0	1,035.1	1,133.0	1,302.6	1,508.5	1,482.1	1,170.9	1,412.5	1,540.9	1,662.8
Australia.....	494.4	709.2	1,280.9	1,485.3	1,485.2	1,852.1	2,026.6	2,164.9	2,312.0	2,770.5	3,194.9	3,578.1	3,946.2	4,153.6	4,424.1
Taiwan.....	307.3	423.2	608.6	703.5	785.7	1,011.8	1,067.0	1,159.5	1,250.5	1,401.7	1,439.0	1,519.1	1,709.7	1,716.2	1,786.4
Singapore.....	314.8	304.6	483.9	498.5	504.9	595.3	799.3	862.9	1,043.7	1,105.0	1,257.0	1,056.3	1,190.9	1,223.1	1,290.7
Hong Kong.....	605.2	686.2	1,182.8	1,442.6	1,855.7	2,074.5	1,849.0	2,072.0	2,314.8	2,312.8	2,369.9	2,381.3	2,022.2	1,679.2	1,793.2
India.....	224.5	315.3	417.5	480.7	451.7	599.1	523.5	601.4	774.4	679.6	839.4	877.8	850.7	955.9	1,054.1
Malaysia.....	221.7	305.1	390.6	433.9	468.0	498.0	513.8	600.9	665.8	711.5	812.7	612.0	706.0	706.9	755.4
Thailand.....	327.5	328.4	459.1	511.7	573.5	716.7	744.6	851.1	1,033.1	1,063.3	1,123.6	781.4	980.5	1,003.8	1,123.1
Philippines.....	216.2	161.9	311.9	354.9	339.7	412.1	471.0	561.9	602.7	666.8	744.7	703.3	761.1	715.6	777.1
Indonesia.....	251.3	258.2	293.2	391.7	404.9	463.2	400.6	362.5	479.1	461.4	550.1	409.9	329.0	365.4	396.2
South Africa.....	393.2	329.0	456.2	580.9	626.2	753.3	724.1	859.7	985.6	1,059.1	1,205.5	1,274.3	1,350.3	1,380.5	1,464.5
Apparent consumption all countries.....	146,110.3	192,680.9	263,982.7	276,784.5	310,008.8	281,147.6	285,671.0	294,078.4	308,385.9	332,780.3	356,004.3	365,449.1	397,963.7	401,428.2	401,255.1
United States.....	23,360.4	33,541.5	51,317.7	54,184.5	59,196.4	62,669.6	64,809.6	69,500.9	74,634.4	81,182.9	91,484.3	94,441.9	105,077.1	108,612.7	103,021.5
Canada.....	1,904.4	2,519.9	3,479.7	3,873.4	3,650.9	4,661.1	5,415.2	5,209.9	5,107.3	5,403.4	6,543.6	8,024.5	9,350.3	9,040.7	10,475.4
Mexico.....	1,770.5	2,200.3	2,825.0	3,161.5	3,205.6	3,368.9	3,782.8	3,684.3	3,676.6	4,038.2	4,698.2	5,627.3	6,174.5	6,769.6	6,451.4
European Union.....	36,027.6	47,707.5	60,838.9	64,671.1	72,578.5	76,869.5	74,744.4	77,617.6	83,127.7	87,716.3	87,709.5	91,571.3	102,975.9	100,760.0	96,777.7
Germany.....	4,947.2	6,836.2	6,790.7	7,657.1	13,381.1	12,923.9	11,067.8	11,818.6	13,206.8	14,360.9	12,005.2	10,079.9	10,651.2	12,890.0	10,049.9
France.....	8,117.5	10,232.2	15,053.3	16,030.3	17,443.7	18,672.8	18,621.6	19,273.9	21,275.9	21,374.2	21,921.7	22,046.0	24,762.0	24,781.5	22,085.6
United Kingdom.....	3,807.5	4,631.3	6,790.5	6,642.5	7,323.6	9,024.2	7,700.6	9,210.6	8,745.6	8,971.3	9,477.3	9,330.4	10,725.2	10,304.2	11,703.6
Italy.....	9,339.1	13,925.2	16,918.7	17,793.7	16,488.5	16,239.8	16,964.8	16,930.0	17,621.2	17,351.1	17,256.0	19,011.5	21,249.6	18,094.8	17,907.2
Other European Union.....	9,816.4	12,082.6	15,285.8	16,547.5	17,941.7	20,008.7	20,389.6	20,384.6	22,278.2	25,658.9	27,049.2	31,103.6	35,587.9	34,689.5	35,031.5
Brazil.....	13,256.4	13,489.0	14,272.3	11,585.4	10,656.3	12,050.6	13,612.3	13,110.3	12,479.0	12,782.6	13,885.3	14,362.8	15,678.0	14,133.9	14,844.7
Argentina.....	2,948.8	2,650.7	2,016.9	2,509.4	2,821.8	3,623.5	3,357.7	3,914.3	3,637.4	3,857.7	4,333.8	4,874.7	4,333.3	4,453.7	3,820.9
Chile.....	552.7	624.8	764.2	750.8	795.0	920.1	1,078.3	1,061.0	1,019.5	1,012.2	1,031.8	1,125.9	1,110.9	1,168.4	1,264.8
Peru.....	999.6	712.2	384.2	493.6	580.3	641.4	683.3	632.8	735.7	745.6	847.6	847.2	864.9	880.7	901.3
Costa Rica.....	91.3	101.4	107.1	88.5	110.6	120.1	177.7	171.2	126.5	116.6	110.7	128.3	137.4	114.2	116.2
Japan.....	30,367.1	38,715.5	49,082.5	50,805.2	50,463.0	51,598.7	52,761.6	51,566.9	53,943.2	59,411.9	61,361.4	61,279.3	62,707.4	57,650.5	59,140.4
China.....	2,255.5	3,885.1	6,628.3	6,860.8	8,679.6	10,209.1	11,148.8	11,074.9	10,469.3	12,896.2	14,187.4	14,704.8	16,403.0	19,043.2	20,618.1
South Korea.....	2,411.9	4,199.4	6,824.1	7,702.8	7,902.3	8,757.8	10,015.6	10,859.4	10,423.8	12,208.2	12,757.1	9,666.6	12,095.2	14,761.2	16,066.1

Appendix table 6-1
World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Millions of 1997 U.S. dollars														
Australia.....	1,402.1	1,827.3	2,333.1	2,683.0	3,024.4	3,490.2	3,832.7	3,760.5	3,920.5	4,216.8	5,117.5	6,038.2	6,270.5	5,679.8	6,262.7
Taiwan.....	744.6	1,251.3	1,543.4	1,637.0	1,778.1	2,140.3	2,150.5	2,464.4	2,652.2	2,890.3	3,018.6	3,114.0	3,198.2	3,043.7	3,142.5
Singapore.....	88.7	403.3	912.9	896.6	1,149.1	1,152.1	1,124.8	909.1	1,946.8	2,100.6	2,651.8	2,283.2	2,343.0	2,874.8	3,098.6
Hong Kong.....	279.8	341.9	314.4	441.4	485.4	425.8	539.5	646.9	802.0	678.6	704.0	782.4	640.8	527.0	527.2
India.....	1,297.4	1,804.2	2,728.9	2,485.4	2,694.8	3,246.8	3,821.8	4,021.3	4,455.9	4,661.3	4,912.7	4,596.2	5,392.7	5,770.0	5,547.2
Malaysia.....	155.2	269.4	403.3	422.3	466.2	482.8	505.7	575.2	668.4	697.5	844.6	680.4	788.9	808.8	840.4
Thailand.....	1,214.2	1,268.7	1,518.9	724.5	1,122.2	1,321.9	1,063.5	1,175.0	1,494.6	1,658.6	1,992.6	1,725.0	2,009.2	2,209.8	2,412.4
Philippines.....	1,128.0	717.7	1,367.3	1,340.3	1,312.1	1,441.4	1,477.5	1,524.0	1,603.1	1,780.4	1,906.6	1,861.7	1,893.9	1,864.1	2,085.6
Indonesia.....	378.4	766.0	961.7	1,206.8	1,526.9	1,267.5	1,504.0	1,845.7	1,812.8	1,841.8	1,780.8	1,661.2	1,477.6	1,774.6	2,171.5
South Africa.....	1,535.2	1,314.8	1,579.2	1,639.5	1,613.8	1,676.8	1,727.4	1,914.2	2,092.0	2,277.0	2,357.1	2,299.2	2,415.2	2,492.5	2,801.4
Medical, precision and optical instruments															
Production all countries.....	194,551.4	238,972.4	274,578.1	279,924.8	287,259.7	283,632.7	285,650.0	288,931.0	311,912.8	325,530.6	329,103.5	342,391.7	353,391.9	391,614.9	404,948.1
United States.....	87,693.3	111,887.9	125,995.5	128,851.5	128,185.0	128,570.4	130,061.5	131,570.6	148,250.0	156,802.2	151,967.0	157,265.3	168,367.6	187,945.2	199,444.3
Canada.....	1,483.9	1,519.2	1,715.5	1,611.2	1,547.1	1,437.2	1,520.1	1,469.6	2,102.7	2,114.6	2,434.1	2,545.9	2,327.2	2,537.5	2,604.0
Mexico.....	363.0	201.7	270.3	353.9	382.5	383.4	570.6	291.2	409.9	538.3	633.9	821.6	863.4	1,130.5	1,250.1
European Union.....	56,619.8	68,970.6	79,692.3	82,245.2	85,471.2	87,448.4	86,478.0	88,079.4	92,113.0	94,769.0	94,914.8	98,892.2	101,735.0	114,726.2	121,068.6
Germany.....	23,237.2	26,752.3	29,518.9	30,658.5	32,101.5	33,750.2	31,574.6	30,956.6	28,736.5	28,999.9	30,510.4	31,273.5	31,635.9	37,565.3	39,652.9
France.....	9,717.3	13,474.7	16,965.6	17,466.8	17,813.5	17,542.7	16,973.5	17,255.6	19,524.8	20,371.2	20,204.6	21,753.9	22,198.5	23,523.2	25,537.3
United Kingdom.....	12,912.2	13,871.9	16,488.0	16,496.0	17,452.1	17,607.1	17,619.9	17,302.1	17,823.2	18,740.7	16,867.0	16,128.2	16,074.7	17,145.9	18,079.5
Italy.....	4,719.0	6,763.4	7,633.5	7,715.4	7,925.4	8,083.1	8,872.4	9,533.4	11,367.9	10,915.8	10,604.5	11,403.0	11,483.0	12,176.5	11,809.1
Other European Union.....	6,034.1	8,108.3	9,086.2	9,908.5	10,178.6	10,465.4	11,437.7	13,033.8	14,660.8	15,741.4	16,728.4	18,333.6	20,342.8	24,315.3	25,989.9
Brazil.....	6,133.5	5,636.9	6,998.1	4,941.6	4,448.5	4,570.6	4,544.5	4,478.3	3,533.8	3,603.3	3,700.0	3,486.4	3,385.7	3,826.0	3,753.7
Argentina.....	404.3	265.0	198.6	233.9	263.9	257.6	457.4	454.6	394.2	375.8	532.3	483.9	386.4	378.3	356.9
Chile.....	21.2	15.4	28.0	29.5	31.2	35.8	41.6	52.4	52.9	58.0	68.6	62.7	38.5	43.1	36.9
Peru.....	108.8	64.2	59.7	46.5	41.0	46.7	48.7	82.0	40.2	32.2	31.9	29.2	24.7	23.9	23.6
Costa Rica.....	28.3	10.7	14.1	14.9	9.2	12.0	32.2	46.4	43.9	26.0	7.1	5.4	5.6	5.0	4.9
Japan.....	23,121.3	28,196.5	30,795.5	32,886.8	35,930.9	33,052.4	29,196.9	28,849.9	29,957.1	31,684.9	36,147.3	37,224.1	33,774.2	33,369.4	27,784.4
China.....	677.7	1,976.1	2,477.5	2,248.9	2,648.8	3,328.5	5,900.4	5,610.3	5,037.3	6,258.2	7,237.2	8,663.1	9,340.2	10,790.0	10,349.3
South Korea.....	818.2	1,252.3	2,049.7	2,305.9	2,730.4	2,809.7	3,235.4	3,954.5	5,053.5	4,878.8	5,028.0	3,280.2	5,575.1	6,049.8	5,851.1
Australia.....	1,006.8	1,000.9	1,197.9	1,043.0	1,195.0	1,097.1	1,273.4	1,224.9	1,145.8	1,137.9	1,323.8	1,473.9	1,637.1	1,938.1	1,831.7
Taiwan.....	820.0	1,553.2	2,058.2	1,973.6	2,025.5	2,005.3	1,850.8	2,009.3	2,160.1	2,020.6	1,989.7	1,893.2	2,084.3	2,534.2	2,348.6
Singapore.....	389.6	288.8	556.3	638.9	670.4	740.2	819.8	877.9	1,103.7	1,150.0	1,140.4	1,248.4	1,483.5	1,391.6	1,288.8
Hong Kong.....	2,606.3	3,024.5	3,766.9	3,580.8	3,351.3	3,378.4	2,864.6	2,937.4	2,517.3	1,758.9	1,437.6	1,473.1	1,265.8	1,480.9	1,357.7
India.....	231.1	333.0	479.2	574.3	558.8	606.6	782.3	858.0	1,071.3	1,025.8	976.9	1,224.1	1,091.1	1,142.7	1,184.3
Malaysia.....	61.4	85.9	258.9	368.5	646.6	602.3	703.8	949.9	1,207.8	973.2	1,000.8	1,035.7	1,085.8	1,239.7	1,287.5
Thailand.....	22.3	131.5	129.1	90.1	213.3	192.2	138.9	296.8	320.9	345.1	342.9	306.7	344.2	359.3	359.4
Philippines.....	15.3	24.4	44.2	21.9	29.5	36.4	101.1	66.0	76.2	100.0	107.3	105.4	114.5	134.3	152.1
Indonesia.....	4.0	14.3	39.4	33.3	47.7	137.2	112.1	147.1	220.1	329.4	308.4	3,575.3	473.9	458.8	467.6
South Africa.....	131.8	255.3	299.1	277.6	290.1	302.7	280.2	275.2	276.7	276.5	274.1	213.9	206.2	208.6	214.5
Value added all countries.....	80,967.9	98,097.8	114,616.1	118,782.9	122,556.2	120,336.3	117,753.9	116,497.8	120,194.4	131,566.0	131,156.3	137,820.6	140,347.0	157,120.3	159,926.0
United States.....	31,630.8	39,018.9	45,857.6	50,200.8	50,551.5	50,409.4	46,990.2	45,607.9	48,668.0	56,968.4	53,574.0	57,425.4	60,376.6	70,197.5	71,357.2
Canada.....	568.1	627.1	720.5	719.4	714.5	653.7	690.0	695.3	1,069.7	1,104.9	1,260.0	1,313.2	1,242.1	1,354.3	1,415.4
Mexico.....	170.4	90.4	95.5	120.8	136.2	133.8	185.0	110.8	136.6	167.1	173.4	257.0	257.2	342.6	378.4
European Union.....	27,163.9	33,441.9	38,016.2	39,157.8	40,600.6	41,468.0	40,610.7	41,192.7	41,899.0	43,178.0	43,511.0	44,505.9	45,863.3	51,009.3	54,442.2
Germany.....	11,804.2	13,589.9	14,958.2	15,574.1	16,307.2	17,402.7	15,787.3	15,496.6	14,243.4	14,712.1	14,978.9	15,056.0	15,035.6	17,628.9	19,090.5
France.....	4,184.1	5,899.2	7,120.9	7,141.7	7,142.3	7,035.8	7,020.9	7,067.8	7,800.5	7,814.1	8,088.3	8,217.1	8,689.3	8,608.2	9,476.0
United Kingdom.....	5,826.7	6,556.3	7,444.2	7,499.9	8,131.0	8,200.7	8,155.7	8,157.2	8,146.3	8,437.2	7,859.7	7,598.5	7,546.3	8,043.4	8,500.1
Italy.....	2,609.3	3,739.6	4,220.7	4,266.1	4,180.8	3,766.1	4,089.4	4,255.4	4,939.6	4,851.0	4,776.1	5,102.2	5,115.8	5,383.8	5,237.2
Other European Union.....	2,739.6	3,656.9	4,235.2	4,676.0	4,839.3	5,062.7	5,557.5	6,215.7	6,769.2	7,363.7	7,808.1	8,532.2	9,476.2	11,345.0	12,138.5
Brazil.....	4,706.4	4,265.7	5,358.4	3,700.2	3,331.0	3,575.7	3,640.3	3,459.0	2,455.1	2,503.4	2,570.6	2,422.2	2,352.2	2,658.1	2,606.1
Argentina.....	202.2	173.6	130.4	125.5	141.6	138.3	205.3	196.3	193.2	156.3	221.4	201.2	160.7	157.3	147.9
Chile.....	10.1	9.4	14.7	13.8	17.3	20.1	26.0	30.6	29.3	28.8	33.0	30.2	18.6	20.8	17.7
Peru.....	43.5	29.1	31.5	26.5	18.3	18.0	18.8	37.5	16.1	14.0	13.8	12.6	10.7	10.3	10.2

World industry and trade data for selected countries or economies and industries: 1980-2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Millions of 1997 U.S. dollars															
Costa Rica	10.2	5.1	7.0	7.2	4.4	5.8	14.3	21.3	19.3	12.0	4.1	2.8	2.9	2.6	2.6
Japan	9,666.3	12,316.9	14,232.6	14,867.4	16,323.8	14,599.6	13,252.5	12,505.8	13,303.2	14,518.3	16,060.7	16,564.7	15,029.5	14,849.4	12,431.3
China	390.1	881.9	943.2	823.6	959.3	1,173.3	1,972.4	1,707.3	1,450.1	1,708.7	1,792.7	2,106.8	2,388.3	2,748.5	2,626.1
South Korea	273.5	409.6	588.0	698.8	795.4	827.6	955.4	1,260.5	1,502.1	1,501.4	1,559.2	1,040.1	1,693.2	1,802.3	1,743.6
Australia	331.9	357.6	348.3	348.5	328.0	351.3	407.2	386.3	374.0	388.3	371.5	365.3	366.8	434.3	409.6
Taiwan	271.7	505.2	625.7	632.5	668.8	696.9	663.3	707.6	688.7	658.9	683.9	690.9	756.7	856.8	890.5
Singapore	175.9	173.5	281.7	296.5	309.1	366.6	418.2	448.6	525.3	569.0	566.4	659.9	791.3	742.4	688.4
Hong Kong	544.2	521.8	718.2	687.4	599.5	580.1	508.8	484.4	426.4	341.6	332.2	301.4	242.1	312.6	287.0
India	68.2	98.9	142.9	134.8	154.7	148.1	197.7	208.7	274.2	273.6	205.9	371.2	331.0	346.5	359.1
Malaysia	23.6	32.4	95.9	106.7	176.5	162.6	180.5	227.7	263.6	231.3	282.7	290.9	304.9	346.5	355.2
Thailand	16.2	98.2	54.5	59.7	120.2	108.3	29.0	117.4	126.9	136.5	135.6	121.3	136.1	142.1	142.2
Philippines	7.3	7.6	23.2	15.4	17.3	20.5	44.7	38.0	37.5	55.0	59.5	58.5	63.5	73.5	82.8
Indonesia	2.0	4.5	8.0	12.2	14.4	35.1	20.8	56.8	72.9	102.6	143.3	1,693.8	194.0	168.1	171.0
South Africa	74.8	109.7	174.2	175.9	185.5	225.1	208.7	205.4	207.3	207.4	206.0	159.8	154.1	156.4	161.1
Exports all countries	115,367.9	143,847.0	192,356.9	204,321.9	212,233.3	226,931.5	225,299.3	237,455.0	270,528.7	287,110.7	316,670.0	324,698.5	344,415.5	381,929.4	379,615.1
United States	29,811.6	28,087.4	39,892.9	40,608.6	42,731.7	45,128.3	45,603.6	49,276.1	55,487.5	61,230.2	68,217.1	69,579.1	72,414.6	83,050.5	84,376.8
Canada	1,533.0	2,280.8	2,542.9	2,085.9	2,171.3	2,711.8	2,657.4	3,226.4	3,516.2	4,141.0	4,633.2	5,175.1	5,943.2	8,731.3	8,628.7
Mexico	58.2	618.0	349.4	497.4	502.3	2,218.8	2,405.1	2,567.3	2,749.5	3,826.3	5,161.5	6,579.7	7,358.5	9,006.7	8,783.8
European Union	46,087.7	62,338.4	78,170.5	84,574.4	83,993.3	89,289.9	87,880.0	89,151.2	102,488.8	108,289.5	118,672.8	124,626.6	129,621.5	137,361.4	139,230.4
Germany	16,202.8	22,063.0	27,935.6	29,096.7	28,376.8	30,832.3	28,646.1	30,014.8	33,071.6	34,754.6	36,525.4	40,628.8	42,573.3	44,207.0	45,028.4
France	6,510.2	8,889.7	10,154.2	11,319.4	11,353.1	11,631.1	11,304.2	11,565.8	12,910.6	12,745.0	13,758.9	13,921.6	13,928.4	15,608.6	15,757.1
United Kingdom	9,245.1	12,690.2	15,471.7	16,213.7	16,007.6	16,374.6	15,972.5	16,566.9	18,230.7	19,726.9	23,107.5	23,105.1	22,874.6	23,894.3	24,211.3
Italy	3,131.5	4,288.9	5,806.2	6,548.6	6,665.0	7,177.6	7,597.0	7,729.6	8,854.3	9,674.9	9,836.7	9,982.3	10,070.1	10,996.7	11,040.8
Other European Union	10,998.0	14,406.7	18,802.9	21,396.1	21,590.8	23,274.3	24,360.4	23,274.0	29,421.5	31,388.1	35,444.3	36,988.8	40,175.2	42,654.8	43,192.9
Brazil	345.0	408.3	425.2	339.7	373.5	368.2	463.8	504.0	416.2	375.6	453.0	585.6	719.7	783.6	793.6
Argentina	165.9	34.5	62.5	57.8	63.7	82.0	90.5	88.8	152.7	92.7	135.5	147.1	151.2	208.5	206.3
Chile	3.6	1.5	4.1	5.0	9.9	15.6	10.4	14.2	11.2	15.2	15.8	18.7	18.3	23.4	24.0
Peru	0.8	3.3	0.7	0.6	1.6	0.9	2.4	6.9	1.9	16.8	7.6	28.1	9.0	4.6	4.6
Costa Rica	0.5	0.2	3.6	6.3	9.8	11.9	15.6	2.9	3.3	3.2	53.4	93.9	96.2	146.2	156.1
Japan	20,108.5	29,358.9	38,362.6	37,762.5	40,505.8	39,796.9	38,028.5	38,756.7	43,397.5	43,443.6	46,803.5	44,049.3	48,677.2	54,217.4	48,454.7
China	317.2	260.4	1,093.0	3,000.9	3,423.0	4,647.5	5,362.8	6,510.6	8,089.3	9,391.5	11,808.5	12,680.1	13,737.1	17,139.3	17,678.3
South Korea	879.6	1,095.5	1,875.8	1,832.2	1,743.4	1,987.6	2,197.2	2,486.2	3,035.2	3,259.0	4,611.2	6,184.6	8,607.3	4,764.8	4,717.5
Australia	580.8	523.0	596.1	653.6	757.5	862.6	882.4	1,028.0	1,103.9	1,377.0	1,438.8	1,527.6	2,013.1	2,144.0	2,152.1
Taiwan	1,167.7	1,702.0	3,716.8	3,686.4	4,290.2	4,880.2	4,891.1	5,329.3	5,659.7	5,565.9	5,692.4	5,489.0	5,869.6	7,036.4	7,235.5
Singapore	829.6	1,230.5	2,284.0	2,742.0	3,290.8	3,614.4	4,041.9	4,985.1	6,230.9	6,475.0	7,317.7	6,798.4	7,302.9	8,352.4	8,305.1
Hong Kong	5,178.9	6,625.2	10,469.1	11,809.2	12,988.1	15,050.9	14,843.9	15,899.9	17,334.1	17,304.9	18,638.1	17,570.2	17,683.6	20,994.5	21,027.4
India	79.6	46.3	99.7	95.2	81.8	102.0	147.3	173.2	216.2	272.5	285.4	310.5	410.4	546.6	548.7
Malaysia	138.9	296.5	671.0	979.2	1,406.4	1,620.1	1,729.8	2,027.4	2,288.7	2,534.9	2,889.5	2,414.7	2,622.9	3,782.2	3,727.3
Thailand	63.7	184.0	466.0	658.0	1,065.4	1,414.2	1,530.9	1,912.0	2,175.6	2,363.3	2,271.6	1,996.1	2,054.8	2,577.2	2,538.6
Philippines	63.3	17.9	174.3	28.0	38.9	41.6	59.2	92.4	107.1	703.5	761.7	882.3	742.7	1,048.9	1,046.0
Indonesia	10.8	100.9	101.9	147.3	205.2	272.3	310.8	411.2	413.7	511.9	563.4	503.6	173.0	357.7	388.5
South Africa	42.6	68.4	40.1	56.3	61.0	123.9	132.5	152.4	192.6	241.6	319.4	295.9	301.2	301.5	306.1
Percent															
Import penetration all countries	56.7	58.3	64.5	65.9	64.4	77.8	77.4	80.7	85.4	88.6	96.4	94.5	95.7	95.2	91.8
United States	17.5	27.8	28.4	27.8	28.2	30.6	32.1	33.3	32.5	33.6	40.6	42.7	42.8	44.9	42.5
Canada	127.1	127.7	131.1	123.4	123.2	126.2	116.3	121.5	114.7	125.6	122.2	120.4	135.2	169.1	159.2
Mexico	121.3	126.0	98.1	99.3	105.9	173.4	181.6	203.5	195.8	256.7	372.2	511.3	538.6	620.2	509.7
European Union	87.0	87.1	101.4	108.5	103.5	107.1	103.9	102.8	113.4	116.8	124.7	125.2	123.8	113.3	108.2
Germany	67.7	82.2	103.3	101.5	92.4	95.2	92.4	99.8	125.2	130.6	129.6	146.8	151.0	122.8	115.3
France	76.8	62.5	66.0	71.0	70.1	72.3	71.7	71.5	71.8	68.8	71.7	69.4	68.7	67.1	63.0
United Kingdom	74.2	83.8	90.8	96.4	91.1	91.4	91.6	98.8	101.8	107.2	149.0	152.3	147.3	141.0	132.4
Italy	73.6	64.7	85.8	96.3	95.4	98.0	86.7	81.9	79.0	90.8	94.0	89.8	89.7	87.4	90.1
Other European Union	145.4	133.3	153.4	168.1	164.5	173.3	169.2	145.3	170.6	169.1	168.0	164.5	161.8	144.3	138.5
Brazil	19.5	13.9	19.0	26.4	27.4	25.6	27.7	33.2	50.2	52.9	56.3	58.3	46.3	45.8	42.5

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Percent														
Argentina.....	63.0	56.7	56.1	66.6	81.5	88.3	78.6	81.4	87.2	86.4	79.9	83.6	90.5	95.0	95.6
Chile.....	95.6	64.3	67.3	70.6	76.7	79.4	77.2	80.8	91.6	90.5	94.1	92.2	88.1	87.5	79.7
Peru.....	38.6	41.6	53.5	58.8	72.5	81.2	71.4	72.8	93.5	94.4	93.7	97.7	83.6	83.6	84.1
Costa Rica.....	73.2	75.0	79.2	83.4	90.2	95.4	77.6	58.8	63.8	77.4	167.0	224.5	273.1	482.0	579.8
Japan.....	71.0	87.5	106.2	94.0	90.4	102.7	126.2	141.7	174.1	174.4	173.6	143.0	207.2	276.4	316.0
China.....	133.7	107.3	91.3	129.7	118.6	126.4	96.4	110.8	155.0	149.8	176.8	156.8	148.6	149.7	152.9
South Korea.....	140.0	112.0	120.6	106.3	92.6	93.3	91.5	89.2	86.5	91.7	96.5	155.0	133.0	85.0	80.8
Australia.....	92.1	89.2	92.8	94.4	90.9	92.7	84.4	95.1	99.5	111.3	102.5	90.9	99.3	88.3	84.9
Taiwan.....	150.3	125.9	204.8	201.6	213.8	232.6	236.1	222.6	189.7	170.9	154.3	135.8	122.6	113.4	109.8
Singapore.....	96.4	135.0	153.6	157.5	200.8	194.2	181.2	220.6	266.8	260.8	282.9	341.1	279.0	288.6	309.6
Hong Kong.....	482.3	481.2	447.3	433.8	613.8	619.5	796.0	841.8	901.2	994.7	1,084.6	1,113.8	1,079.8	1,028.8	1,015.4
India.....	126.4	132.8	110.0	95.0	72.9	73.8	61.8	62.2	66.1	64.9	72.7	69.3	75.5	81.9	81.7
Malaysia.....	169.0	172.6	139.3	142.8	137.3	167.9	162.4	144.0	136.9	167.6	171.5	144.0	151.1	183.6	176.1
Thailand.....	128.7	119.1	143.2	168.1	193.7	247.1	254.5	235.4	221.2	247.4	225.8	276.4	265.0	255.8	228.9
Philippines.....	120.4	101.2	116.6	87.7	89.2	95.8	86.4	100.4	102.6	189.4	181.6	177.3	173.6	205.3	168.4
Indonesia.....	177.1	155.4	104.1	108.4	111.7	107.7	114.8	132.8	117.6	123.5	127.1	17.1	53.9	72.4	72.6
South Africa.....	96.3	69.8	77.9	87.8	90.9	99.9	98.1	97.8	103.5	96.1	102.7	95.8	91.9	89.3	79.8
	Millions of 1997 U.S. dollars														
Imports all countries.....	113,610.6	147,258.2	198,643.4	212,007.0	219,270.0	234,180.0	236,576.9	250,196.0	286,236.3	304,532.6	337,447.8	345,433.5	369,653.6	419,786.8	424,531.8
United States.....	13,841.2	30,854.5	34,556.5	34,348.8	33,827.7	37,116.1	40,427.8	42,076.4	45,823.8	48,889.2	57,237.5	64,525.3	70,335.6	82,761.8	81,074.1
Canada.....	5,744.5	6,512.0	8,523.7	8,701.6	8,130.4	8,402.2	8,867.7	10,077.7	10,586.6	10,517.3	12,122.3	12,976.2	14,642.5	15,524.8	15,810.8
Mexico.....	1,909.9	1,597.3	2,663.7	3,021.0	3,863.0	4,852.3	5,014.6	5,296.8	4,136.3	5,152.3	6,191.3	7,025.0	7,845.1	9,388.0	9,570.5
European Union.....	52,706.6	57,326.4	84,790.1	92,252.3	93,970.9	97,859.7	90,080.9	91,936.7	105,901.2	110,510.8	119,889.4	126,440.3	132,688.6	139,138.7	142,584.2
Germany.....	12,074.5	12,536.0	18,214.7	20,409.3	22,455.2	23,777.3	21,383.2	22,289.0	25,498.4	25,942.2	26,355.7	28,701.2	29,745.1	31,366.2	31,722.2
France.....	8,716.0	8,678.0	12,851.4	13,478.2	13,896.9	13,799.1	13,507.6	13,735.9	15,411.7	15,645.3	16,339.7	17,735.3	19,021.1	19,822.1	20,549.0
United Kingdom.....	8,511.0	10,553.2	13,652.1	13,931.7	13,367.2	14,077.1	13,298.1	13,338.9	15,790.3	16,866.7	18,965.3	19,402.8	19,668.1	21,249.4	21,743.8
Italy.....	5,752.9	6,171.9	10,405.4	11,351.3	11,553.8	11,795.7	9,727.1	9,475.2	10,649.2	10,751.8	11,979.9	12,508.7	13,479.4	14,156.8	14,663.8
Other European Union.....	17,652.2	19,387.4	29,666.4	33,081.8	32,697.9	34,410.5	32,164.9	33,097.6	38,551.6	41,304.8	46,248.7	48,092.3	50,774.8	52,544.3	53,905.5
Brazil.....	1,491.4	900.9	1,633.8	1,746.7	1,776.2	1,674.2	1,787.2	2,193.0	3,356.2	3,703.2	4,181.6	4,204.7	3,568.4	3,739.8	3,768.6
Argentina.....	1,242.6	386.5	302.5	348.3	670.3	980.6	1,031.1	1,324.2	1,185.9	1,346.0	1,580.7	1,652.8	1,525.3	1,302.0	1,302.6
Chile.....	304.1	214.7	380.0	397.7	458.7	567.9	602.3	697.8	706.4	743.9	846.6	855.2	748.7	665.6	670.7
Peru.....	149.7	110.6	89.8	92.7	108.3	144.0	179.8	238.6	361.9	335.5	363.6	361.9	307.3	282.7	289.0
Costa Rica.....	34.4	25.8	45.9	52.7	49.4	48.2	65.6	68.1	72.4	79.0	115.3	153.8	130.2	168.6	173.9
Japan.....	5,124.3	6,159.3	10,900.9	11,735.3	12,420.7	12,097.6	13,339.5	15,523.4	19,871.4	23,286.6	25,133.7	23,725.8	25,674.6	30,955.3	31,054.1
China.....	1,332.4	4,921.3	4,236.4	4,390.2	5,280.3	6,824.1	7,971.8	7,945.3	9,158.5	9,776.1	10,520.4	11,605.2	13,952.2	19,252.2	21,628.6
South Korea.....	1,295.9	2,656.4	5,166.2	5,360.2	5,851.7	5,535.9	6,437.0	8,283.4	10,965.2	11,792.7	11,530.1	6,973.4	9,943.1	13,334.2	13,797.9
Australia.....	2,142.7	3,170.8	3,498.5	3,336.9	3,286.3	3,492.1	3,686.0	4,017.6	4,248.2	4,318.7	4,694.5	4,634.0	4,834.5	4,807.2	4,765.2
Taiwan.....	1,479.8	1,683.5	3,574.6	3,609.8	4,363.9	5,049.4	5,288.1	5,850.9	7,026.2	8,313.0	10,522.0	11,429.9	14,573.7	19,409.3	18,643.6
Singapore.....	1,907.0	2,452.6	3,611.1	4,387.2	4,630.2	5,170.4	6,262.2	6,834.1	7,835.0	8,419.1	9,555.6	7,736.6	8,856.7	10,665.0	10,170.1
Hong Kong.....	3,916.2	5,420.1	9,064.5	11,042.7	11,913.2	14,064.1	13,765.5	14,659.9	16,364.0	17,122.2	18,947.5	17,718.3	17,867.7	21,316.1	21,472.0
India.....	595.1	1,293.6	1,807.5	1,492.8	950.9	1,140.5	1,090.5	1,139.7	1,656.1	1,516.0	1,845.5	2,015.9	2,086.4	2,437.4	2,587.6
Malaysia.....	655.7	1,097.3	1,507.0	1,935.7	2,471.9	2,436.1	2,562.4	3,371.5	4,375.2	4,030.7	4,528.9	3,673.3	3,922.0	5,174.8	5,221.8
Thailand.....	448.3	713.8	1,348.4	1,580.8	1,898.5	2,048.2	2,296.7	2,810.0	3,551.1	3,685.9	3,462.0	2,438.3	2,518.8	3,234.9	3,376.7
Philippines.....	403.3	214.7	589.7	369.4	357.6	469.2	624.8	748.7	882.5	1,332.8	1,456.4	1,370.8	1,318.1	1,442.3	1,475.5
Indonesia.....	465.2	794.4	726.6	908.2	1,016.6	1,027.0	1,030.2	863.4	1,057.2	1,032.4	1,197.4	685.5	568.7	906.9	907.7
South Africa.....	1,503.2	1,099.5	1,255.4	1,226.4	1,284.3	1,360.5	1,385.0	1,519.0	1,667.6	1,723.6	1,706.3	1,704.7	1,691.9	1,819.8	1,802.1
Apparent consumption all countries.....	200,432.0	252,721.7	307,934.4	321,888.1	340,287.9	301,026.3	305,821.4	310,108.0	335,040.1	343,858.2	349,926.9	365,686.5	386,231.7	440,962.2	462,663.7
United States.....	79,221.7	111,200.3	121,695.5	123,619.1	120,002.5	121,284.9	126,103.1	126,404.7	141,134.9	145,733.1	140,987.4	151,112.4	164,228.9	184,533.9	190,940.1
Canada.....	4,521.2	5,098.7	6,499.7	7,050.2	6,597.6	6,657.7	7,626.9	8,291.4	9,228.2	8,372.2	9,923.2	10,777.5	10,828.8	9,180.9	9,928.6
Mexico.....	1,574.6	1,267.8	2,716.8	3,041.9	3,647.3	2,798.3	2,761.0	2,602.5	2,112.8	2,007.0	1,663.7	1,374.0	1,456.5	1,513.6	1,877.8
European Union.....	60,608.4	65,817.1	83,618.4	85,019.1	90,791.1	91,370.3	86,728.6	89,401.7	93,428.0	94,603.9	96,131.3	100,994.5	107,181.4	122,760.7	131,735.0
Germany.....	17,830.1	15,248.7	17,640.8	20,099.8	24,295.4	24,973.1	23,144.4	22,334.3	20,366.9	19,868.9	20,340.7	19,550.0	19,703.2	25,543.4	27,506.8
France.....	11,347.9	13,887.2	19,483.1	18,995.2	19,824.3	19,096.9	18,836.7	19,213.4	21,466.8	22,732.4	22,785.4	25,546.1	27,704.5	29,537.6	32,600.7
United Kingdom.....	11,476.6	12,590.7	15,028.7	14,459.4	14,678.3	15,403.2	14,514.1	13,508.3	15,517.9	15,737.2	12,724.8	12,736.4	13,356.5	15,071.6	16,425.8

World industry and trade data for selected countries or economies and industries: 1980–2001

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Millions of 1997 U.S. dollars														
Italy	7,814.8	9,542.5	12,127.3	11,785.0	12,117.0	12,034.9	11,225.9	11,570.1	13,477.1	11,843.6	12,747.7	13,925.9	15,028.1	16,192.6	16,280.2
Other European Union.....	12,139.1	14,548.0	19,338.5	19,679.7	19,876.1	19,862.2	19,007.5	22,775.6	22,599.2	24,421.8	27,532.8	29,236.2	31,389.3	36,415.6	38,921.5
Brazil.....	7,645.1	6,498.0	8,585.7	6,606.2	6,477.4	6,539.3	6,446.6	6,615.2	6,689.2	6,995.7	7,428.7	7,218.8	7,700.1	8,161.6	8,861.2
Argentina.....	1,972.3	681.4	539.5	523.1	822.7	1,111.1	1,311.2	1,627.2	1,360.6	1,558.0	1,977.5	1,977.3	1,685.5	1,370.3	1,363.0
Chile.....	318.3	334.2	564.9	563.6	598.4	715.4	780.3	863.8	771.4	822.1	899.5	927.5	849.8	760.3	841.4
Peru	388.2	266.0	167.9	157.5	149.4	177.4	251.9	327.7	387.1	355.6	387.9	370.6	367.6	338.0	343.7
Costa Rica.....	47.0	34.4	57.9	63.2	54.8	50.5	84.6	115.8	113.6	102.1	69.0	68.5	47.7	35.0	30.0
Japan.....	7,214.7	7,041.0	10,263.5	12,486.5	13,735.7	11,780.8	10,566.5	10,955.9	11,414.7	13,352.6	14,477.5	16,588.4	12,390.7	11,199.7	9,826.9
China.....	996.4	4,584.8	4,640.9	3,383.9	4,454.0	5,399.7	8,273.0	7,169.1	5,908.5	6,527.6	5,949.1	7,399.6	9,391.1	12,858.6	14,144.0
South Korea.....	926.0	2,372.9	4,282.4	5,041.4	6,320.0	5,936.0	7,034.7	9,287.5	12,674.7	12,864.5	11,946.8	4,500.1	7,473.5	15,679.7	17,075.9
Australia.....	2,326.5	3,556.7	3,769.4	3,535.9	3,615.2	3,768.6	4,365.8	4,225.8	4,269.2	3,882.0	4,579.4	5,095.9	4,867.8	5,444.8	5,615.2
Taiwan	984.8	1,337.4	1,745.6	1,790.5	2,041.0	2,171.0	2,239.3	2,628.7	3,703.2	4,863.8	6,819.3	8,416.6	11,883.6	17,111.5	16,987.6
Singapore.....	1,977.9	1,816.5	2,350.6	2,784.9	2,305.8	2,662.3	3,455.5	3,097.7	2,937.2	3,228.8	3,378.4	2,268.3	3,174.1	3,695.8	3,284.7
Hong Kong.....	811.9	1,126.3	2,026.7	2,545.7	1,941.1	2,270.2	1,729.3	1,741.4	1,815.9	1,721.3	1,747.0	1,590.8	1,654.7	2,071.9	2,114.6
India.....	470.8	974.3	1,642.8	1,571.1	1,305.4	1,546.1	1,764.3	1,831.2	2,505.5	2,336.1	2,537.1	2,909.3	2,762.8	2,977.9	3,166.5
Malaysia.....	388.1	635.9	1,081.5	1,355.4	1,800.1	1,450.6	1,577.6	2,341.5	3,196.7	2,404.8	2,640.2	2,551.1	2,596.5	2,818.1	2,965.5
Thailand.....	348.5	599.2	941.9	940.7	980.1	828.9	902.4	1,194.0	1,605.2	1,489.7	1,533.3	882.3	950.3	1,264.5	1,475.5
Philippines.....	335.0	212.1	505.5	421.2	400.8	490.1	723.1	745.9	860.1	703.6	802.0	773.0	759.2	702.7	876.1
Indonesia.....	262.6	511.3	697.9	838.1	909.8	953.8	897.2	650.2	899.1	835.7	942.5	4,010.6	1,055.3	1,253.2	1,249.6
South Africa.....	1,561.0	1,574.9	1,610.9	1,396.4	1,412.4	1,361.5	1,411.2	1,553.3	1,612.0	1,793.1	1,661.1	1,778.7	1,841.9	2,038.6	2,257.2

NOTES: Production = total gross output; import penetration = (imports/apparent consumption)100; apparent consumption, a measure of home-market demand, is calculated by taking production plus imports minus exports (corrected for implied service costs). Gross value added reported here is equal to gross output less the consumption of intermediate inputs and supplies. Conceptually, value added is the current income from ongoing current production that is available for distribution to factors of production. Seventy countries or economies are included in "all countries." High-technology sectors cover aerospace; computers and office machinery; communications equipment; pharmaceuticals; and medical, precision and optical instruments. Other European Union countries include Austria, Belgium, Denmark, Finland, Greece, Ireland, Netherlands, Portugal, Spain, and Sweden.

SOURCES: Global Insight, Inc., World Industry Service database, 2003. Historical data are from United Nations Industrial Development Organization, United Nations System of National Accounts, Organisation for Economic Co-operation and Development, and country sources.

Appendix table 6-2

Service industry revenues for selected countries or economies: 1980–2001

(Millions of 1997 U.S. dollars)

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All service industries, all countries	15,777,311.0	18,589,879.3	22,137,708.8	22,615,534.3	23,105,890.1	23,944,808.6	24,846,573.2	25,404,007.7	26,421,854.8	27,427,960.4	28,510,756.1	29,449,141.2	30,567,697.9	32,028,608.1	32,699,029.4
United States	5,322,988.0	6,022,932.4	7,112,783.7	7,337,050.9	7,327,308.9	7,471,484.9	7,737,602.7	8,014,112.1	8,331,740.3	8,741,501.5	9,155,110.0	9,610,752.6	10,103,330.3	10,664,506.1	10,828,803.6
Canada	361,286.6	425,474.7	499,893.9	506,000.1	504,298.4	515,573.2	530,016.3	554,439.4	571,610.8	590,163.7	616,150.7	649,148.3	686,428.5	713,097.0	737,477.2
Mexico	248,706.6	284,783.7	253,058.8	263,944.2	277,623.7	291,029.7	298,547.5	312,166.5	293,687.4	303,769.9	326,448.6	342,659.2	355,078.2	379,349.4	384,992.2
European Union	4,512,175.1	5,449,270.9	6,437,150.7	6,644,994.6	6,839,030.3	7,010,544.2	7,349,008.9	7,555,188.4	7,932,966.6	8,068,210.8	8,320,641.9	8,651,644.2	9,056,273.7	9,456,398.4	9,686,217.2
Germany	1,233,875.2	1,395,849.9	1,571,667.7	1,653,736.9	1,783,500.5	1,846,788.5	1,869,497.9	1,886,731.2	1,932,395.4	1,986,329.5	2,030,333.7	2,093,908.3	2,204,522.9	2,318,472.1	2,355,155.6
France	784,223.7	1,030,656.4	1,245,903.0	1,277,842.5	1,282,108.7	1,297,713.4	1,295,710.9	1,307,603.5	1,322,176.2	1,346,392.6	1,383,689.6	1,424,631.7	1,487,298.1	1,564,009.7	1,595,481.7
United Kingdom	874,391.5	966,897.5	1,116,720.8	1,135,670.2	1,141,872.2	1,154,751.4	1,211,628.9	1,303,758.2	1,385,050.9	1,465,531.7	1,539,130.0	1,621,252.5	1,701,486.8	1,761,922.5	1,818,432.4
Italy	453,403.8	655,691.9	815,972.7	828,982.3	840,677.2	882,440.8	1,050,874.9	1,077,804.0	1,244,583.0	1,163,210.5	1,171,461.3	1,203,979.6	1,248,012.2	1,302,349.4	1,344,472.3
Other European Union	1,166,280.8	1,400,175.3	1,686,886.6	1,748,762.8	1,790,871.8	1,828,850.1	1,921,296.3	1,979,291.5	2,048,761.1	2,106,746.5	2,196,027.4	2,307,872.2	2,414,953.6	2,509,644.7	2,572,675.3
Brazil	501,517.9	548,112.3	805,540.5	528,203.3	532,627.1	764,777.7	888,675.1	686,642.9	665,537.9	691,424.4	709,080.0	709,427.8	670,154.1	689,212.8	700,572.8
Argentina	204,941.6	177,024.5	208,855.5	192,460.7	207,091.0	227,340.0	207,768.3	226,676.3	221,514.7	233,801.6	253,195.0	261,817.0	259,815.4	256,684.1	244,661.3
Chile	33,055.9	29,499.1	36,781.1	37,913.7	40,440.1	44,493.4	46,758.6	48,693.2	52,518.5	56,835.5	60,352.9	62,307.2	62,447.5	65,930.7	68,337.4
Peru	33,938.2	36,690.0	40,933.4	38,172.1	40,805.0	38,491.9	39,484.1	42,570.6	47,553.3	49,581.6	53,171.1	52,962.5	52,731.3	53,742.6	54,366.7
Costa Rica	5,491.8	5,331.1	6,564.2	7,060.1	6,908.4	7,855.4	8,697.1	9,321.4	9,579.9	9,741.4	10,359.2	11,102.8	11,486.5	11,885.0	11,817.3
Japan	2,501,883.3	2,977,930.7	3,537,449.0	3,711,488.1	3,853,359.9	3,938,233.4	3,929,232.7	3,999,766.7	4,116,571.6	4,269,280.1	4,364,892.0	4,375,874.9	4,467,660.4	4,626,739.8	4,695,073.7
China	69,262.3	120,986.1	183,403.7	191,130.8	206,092.4	238,237.5	259,926.2	276,633.3	294,204.7	328,328.6	369,067.6	415,540.6	452,113.8	488,213.0	524,703.1
South Korea	117,859.2	165,442.8	225,401.9	242,420.9	264,857.8	281,956.8	299,775.8	323,756.2	349,137.8	381,252.1	411,925.3	407,991.8	435,695.3	473,990.4	490,198.3
Australia	212,136.8	249,911.5	302,038.9	304,374.2	307,977.7	319,181.2	331,737.2	351,936.5	368,057.0	385,157.7	409,447.9	430,090.9	448,652.0	458,479.5	477,573.3
Taiwan	70,485.7	95,961.1	146,227.4	160,366.8	172,739.2	189,632.3	203,997.4	218,695.4	233,680.7	251,248.8	272,120.0	290,520.3	302,958.2	323,165.2	323,382.4
Singapore	27,235.8	40,636.8	54,115.8	59,688.9	64,545.2	64,598.3	73,569.7	81,445.0	87,233.6	93,960.4	102,719.0	102,263.5	109,690.0	115,169.8	115,169.8
Hong Kong	61,511.8	83,612.9	136,000.9	152,434.2	163,355.1	172,723.7	191,889.6	215,054.5	224,170.8	238,374.5	254,183.6	244,592.9	245,855.1	262,925.2	266,592.6
India	89,350.9	118,038.6	153,507.2	161,313.8	166,721.4	174,956.3	191,737.2	204,299.7	225,872.7	242,618.0	264,623.2	288,858.7	277,388.9	297,198.3	323,810.7
Malaysia	18,522.1	23,308.9	32,918.5	36,486.5	40,073.4	45,160.4	51,591.3	56,068.5	62,499.9	69,770.2	73,884.2	65,376.8	66,681.6	70,412.8	73,623.7
Thailand	37,067.8	47,161.7	66,207.0	74,954.2	79,365.5	86,418.4	94,790.6	102,986.6	112,983.8	118,262.1	115,084.2	102,048.0	104,990.8	109,038.6	114,831.5
Philippines	32,810.0	32,854.3	42,619.4	45,022.8	44,916.8	45,434.3	46,437.3	49,064.9	52,206.4	56,197.4	60,327.4	62,763.0	65,362.1	63,515.8	62,754.4
Indonesia	40,548.5	58,030.6	71,819.7	80,142.3	87,424.7	93,915.1	103,388.2	109,593.2	119,265.8	127,529.5	130,016.4	107,136.9	107,604.6	115,961.8	120,685.5
South Africa	81,888.6	97,896.3	109,382.1	111,940.9	112,956.5	113,746.7	114,989.7	119,934.7	123,393.1	130,591.2	135,400.8	139,245.3	142,822.0	145,581.9	149,057.0
High-technology service industries, all countries	5,383,076.0	6,358,350.8	7,929,454.7	8,003,475.7	8,216,538.7	8,481,855.3	8,894,328.0	8,963,002.3	9,406,117.1	9,857,936.6	10,315,448.1	10,773,495.9	11,320,151.8	12,017,300.8	12,322,239.2
United States	1,896,502.8	2,105,769.1	2,573,709.2	2,659,292.3	2,689,081.9	2,678,600.0	2,811,153.9	2,893,489.5	3,036,118.1	3,196,352.7	3,396,734.6	3,616,430.5	3,852,862.6	4,120,294.6	4,189,525.9
Canada	129,901.9	158,116.0	190,473.8	194,508.4	197,088.1	198,817.7	204,625.1	212,810.7	220,196.2	228,321.8	240,861.0	253,554.0	269,562.7	284,498.7	297,292.6
Mexico	46,101.2	52,913.4	57,079.2	58,704.6	62,504.7	68,004.7	73,428.3	77,662.0	77,770.0	79,363.6	85,882.0	89,569.6	94,927.4	101,654.7	104,460.5
European Union	1,540,817.5	1,863,625.9	2,265,633.6	2,358,447.9	2,437,703.9	2,496,768.1	2,631,063.3	2,696,666.1	2,898,115.0	2,995,685.6	3,098,694.9	3,269,149.3	3,494,163.6	3,708,830.0	3,804,313.0
Germany	491,277.6	539,723.1	605,363.2	632,850.3	690,073.9	717,775.3	747,426.0	758,087.5	783,048.9	814,574.0	823,889.4	865,601.8	934,436.4	998,829.0	1,014,327.0
France	296,839.7	379,919.9	480,249.3	490,928.7	485,783.7	494,126.9	484,580.3	486,396.2	494,619.3	506,394.1	515,754.8	538,239.1	573,018.1	608,383.3	615,859.9
United Kingdom	243,704.9	281,565.9	351,250.9	371,712.5	381,194.1	388,205.4	414,297.9	462,057.7	503,080.0	538,300.7	584,662.0	628,387.7	679,148.8	714,232.1	750,478.8
Italy	144,081.9	219,575.1	272,111.4	280,843.3	284,496.4	297,291.0	358,964.5	352,873.1	408,046.6	392,140.6	403,996.0	417,208.7	443,076.2	471,716.6	485,629.8
Other European Union	364,913.5	442,841.9	556,658.9	582,113.1	596,155.9	599,369.6	625,794.7	637,251.5	709,319.1	744,274.2	770,392.8	819,712.1	864,484.2	915,677.2	938,017.5
Brazil	265,873.2	298,467.6	490,323.1	260,020.1	268,129.6	408,456.6	505,372.6	307,598.6	271,685.2	296,662.0	301,180.2	297,713.3	275,844.8	280,174.5	284,708.7
Argentina	68,546.9	59,723.7	70,574.8	72,849.6	80,245.5	88,179.9	73,722.7	81,346.0	81,287.1	85,998.3	92,582.9	95,499.6	98,925.8	98,427.1	93,551.2
Chile	7,490.4	10,309.1	12,956.3	13,309.4	14,592.4	15,818.1	16,763.4	17,602.7	18,558.3	19,609.2	20,385.0	21,041.4	21,073.4	22,316.7	23,185.2
Peru	7,685.7	9,610.5	10,572.3	10,814.6	13,184.6	12,433.6	12,603.0	13,365.5	15,074.8	15,871.7	17,036.3	16,942.7	16,768.1	17,184.7	17,447.9
Costa Rica	1,382.0	1,384.5	1,743.5	1,841.9	1,846.0	2,731.8	3,008.6	3,237.1	3,358.0	3,442.9	3,648.3	3,877.6	4,053.9	4,226.8	4,233.9
Japan	762,534.6	962,751.4	1,210,907.2	1,276,968.6	1,315,995.1	1,358,547.9	1,346,421.6	1,385,141.6	1,432,746.4	1,503,849.3	1,538,954.2	1,565,154.3	1,593,810.7	1,688,065.8	1,747,842.3
China	24,770.6	38,785.4	69,803.0	69,716.6	69,662.0	79,734.4	89,414.7	99,534.7	107,586.4	122,935.1	139,982.4	154,840.7	168,015.4	181,368.8	194,783.8
South Korea	27,486.2	43,621.6	65,253.3	71,446.9	80,269.5	87,215.5	96,251.8	105,987.3	117,075.3	128,458.0	145,912.9	143,311.8	156,350.3	180,396.9	188,905.6
Australia	87,589.4	106,433.0	134,400.8	139,208.2	141,029.5	147,683.7	152,507.5	159,175.9	167,578.8	174,403.8	183,533.5	193,345.9	201,310.4	203,257.3	212,293.9
Taiwan	14,691.7	19,638.7	36,585.1	40,019.9	41,045.0	45,701.1	49,730.5	55,319.5	58,324.9	62,268.1	70,710.8	77,308.2	84,004.1	90,159.5	91,634.8
Singapore	10,236.0	17,166.1	22,925.6	25,214.4	27,355.1	26,958.9	31,450.5	34,919.6	36,450.2	38,581.0	43,290.7	43,635.7	46,934.4	47,985.9	49,836.3
Hong Kong	13,931.7														

Appendix table 6-2

Service industry revenues for selected countries or economies: 1980–2001

(Millions of 1997 U.S. dollars)

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Communication services, all countries.....	547,316.1	633,855.4	779,128.9	813,021.7	832,761.5	865,151.6	911,909.4	950,712.7	1,022,362.3	1,117,196.8	1,211,531.7	1,314,445.0	1,490,990.5	1,699,692.0	1,836,490.0
United States.....	250,739.1	262,752.7	304,613.6	315,219.8	316,325.9	329,705.1	344,333.0	363,236.6	387,712.6	423,541.3	452,646.0	491,743.1	556,610.6	632,116.3	699,505.2
Canada.....	8,962.8	12,321.4	17,349.9	18,580.4	19,064.3	19,426.5	19,837.2	20,839.4	22,245.8	22,920.7	24,917.2	26,510.0	29,340.2	33,298.7	37,502.6
Mexico.....	1,042.1	1,442.6	2,216.6	2,721.0	3,057.7	3,836.1	4,372.9	4,771.6	5,544.5	6,375.0	7,118.9	7,714.3	8,799.6	10,143.1	10,554.9
European Union.....	100,980.6	133,163.2	158,771.5	168,216.9	178,556.7	188,885.3	204,357.8	210,554.6	224,359.8	242,360.4	269,931.5	302,157.9	359,238.3	414,064.0	443,929.7
Germany.....	30,681.8	33,844.6	37,927.7	40,124.0	42,637.2	46,125.9	49,154.6	51,407.8	52,885.1	57,914.5	62,193.8	69,491.8	87,737.8	103,281.2	109,955.8
France.....	12,978.8	20,821.3	26,068.4	28,362.8	30,860.9	31,876.7	32,905.5	33,234.5	34,269.3	35,390.4	40,121.4	47,201.7	57,628.9	67,799.8	75,458.5
United Kingdom.....	20,433.9	26,009.6	31,125.4	31,898.9	33,620.2	34,736.4	37,101.2	40,905.3	44,646.5	49,770.8	58,783.4	64,507.1	74,483.9	83,523.6	91,737.9
Italy.....	9,930.7	17,056.4	19,488.0	19,776.8	20,888.5	22,481.3	27,524.7	24,856.9	29,172.2	28,781.3	30,249.1	32,285.0	38,881.0	42,033.6	43,471.1
Other European Union.....	26,955.5	35,431.2	44,162.0	48,054.4	50,550.0	53,665.0	57,671.9	60,150.2	63,386.8	70,503.4	78,583.7	88,672.4	100,506.8	117,425.9	123,306.4
Brazil.....	16,498.5	11,401.6	15,939.5	13,013.0	14,205.5	16,428.7	20,099.1	17,643.9	18,849.6	20,581.7	22,428.3	25,879.1	31,729.8	35,622.3	39,157.6
Argentina.....	10,151.0	941.8	9,450.5	9,148.9	10,071.2	11,118.1	14,356.1	15,690.5	15,919.8	17,078.5	19,133.0	20,639.5	20,412.5	20,728.2	20,189.8
Chile.....	543.9	597.5	792.8	855.5	1,091.1	1,346.4	1,598.3	1,761.9	1,902.9	2,087.5	2,298.2	2,491.4	2,513.3	2,749.5	2,991.2
Peru.....	2,672.1	3,524.6	2,580.7	2,517.4	2,407.2	2,383.7	2,535.1	2,715.0	3,021.2	3,222.5	3,448.1	3,560.9	3,701.2	3,918.5	3,975.9
Costa Rica.....	201.4	214.4	283.7	302.1	310.6	614.2	700.0	741.2	789.4	829.9	898.9	985.3	1,058.2	1,135.7	1,139.4
Japan.....	46,671.2	56,932.6	67,433.1	72,007.8	73,989.7	74,102.1	80,243.9	89,958.5	94,617.5	112,643.4	121,677.0	132,924.7	153,367.8	176,041.4	194,210.4
China.....	498.9	1,175.2	2,635.5	3,481.8	3,997.6	5,040.0	6,770.5	8,755.4	10,851.1	13,766.4	17,727.1	20,561.2	24,107.9	27,724.0	31,328.2
South Korea.....	1,384.4	3,139.8	4,672.4	5,274.5	6,007.4	6,634.0	7,005.1	7,962.0	9,504.5	12,159.3	17,213.7	20,799.8	28,728.5	44,850.4	49,634.1
Australia.....	7,406.3	9,666.3	13,055.5	14,164.9	15,397.1	15,976.2	17,012.1	18,026.2	21,164.1	21,818.8	23,038.1	25,684.1	27,913.1	28,902.0	30,272.0
Taiwan.....	1,598.7	2,574.9	3,705.2	4,179.1	4,678.2	5,367.9	5,865.6	5,954.5	6,290.1	6,575.9	6,893.1	9,026.0	11,085.6	14,157.7	14,836.5
Singapore.....	2,215.6	3,357.1	4,807.1	5,289.0	5,670.2	6,007.4	6,660.7	7,301.9	8,053.1	8,698.5	9,505.8	10,111.0	11,886.0	11,770.7	12,211.7
Hong Kong.....	1,283.3	1,574.9	2,712.4	3,148.1	3,688.9	4,278.1	5,155.6	5,658.3	6,294.4	7,366.9	7,505.8	6,690.2	7,145.9	7,830.0	7,909.6
India.....	2,518.8	2,840.0	4,828.7	4,880.8	5,137.5	5,688.3	7,148.9	8,140.3	9,337.9	10,127.8	11,559.7	13,582.0	12,355.5	13,457.5	14,539.3
Malaysia.....	1,176.2	1,640.6	2,494.9	2,673.9	3,172.0	3,441.0	3,894.3	4,447.9	5,042.2	5,561.7	5,956.3	5,476.8	5,924.2	6,676.5	6,978.9
Thailand.....	511.7	763.3	1,423.4	1,780.7	2,062.9	2,398.6	2,684.0	3,252.3	4,031.5	4,998.5	5,233.1	4,734.6	5,030.9	5,480.4	5,558.9
Philippines.....	509.6	782.2	1,255.5	1,229.3	1,116.3	1,206.2	1,323.8	1,440.2	1,584.9	1,918.2	2,132.7	2,273.8	2,436.1	2,269.5	2,098.8
Indonesia.....	3,137.1	4,746.9	6,361.3	6,928.1	7,514.5	8,124.6	8,755.7	9,449.5	10,276.1	11,171.1	11,827.9	9,594.1	10,116.8	11,116.0	11,650.4
South Africa.....	6,990.6	7,421.3	7,717.1	7,744.6	7,579.0	7,728.5	7,876.1	8,279.0	9,048.6	9,630.6	10,544.6	11,582.8	12,448.6	12,755.8	13,263.5
Financial institutions and insurance, all countries.....	1,693,575.2	1,901,366.9	2,526,042.4	2,391,886.6	2,437,757.4	2,487,355.6	2,709,981.2	2,576,382.2	2,646,797.2	2,731,978.4	2,929,904.7	3,050,354.4	3,160,777.9	3,343,753.7	3,342,378.1
United States.....	748,357.8	736,196.7	877,364.5	890,217.0	921,147.6	852,552.8	941,371.7	946,890.2	993,964.1	1,030,246.4	1,128,267.7	1,203,484.7	1,281,306.1	1,365,945.1	1,339,112.0
Canada.....	37,476.5	46,465.9	54,622.2	54,587.9	54,515.4	55,560.3	58,563.7	63,586.3	65,903.7	71,518.3	74,083.7	77,763.0	82,917.5	87,037.7	89,564.3
Mexico.....	6,397.3	6,591.4	8,270.2	7,998.0	8,259.1	8,903.5	10,061.2	10,701.8	12,473.5	12,654.1	15,711.1	16,864.3	17,358.4	19,560.3	20,458.8
European Union.....	418,390.1	508,624.4	616,215.9	633,399.5	639,787.0	630,461.3	655,646.3	657,239.0	681,801.5	697,392.3	742,665.7	782,325.3	820,512.3	874,842.2	887,191.3
Germany.....	99,933.3	114,624.2	131,900.6	138,621.6	154,112.0	152,923.2	159,556.5	164,007.8	165,037.8	173,469.6	183,141.3	194,264.1	219,323.3	236,263.7	240,536.4
France.....	94,990.3	115,586.4	149,470.0	140,763.1	130,852.2	132,296.4	124,207.7	122,316.9	120,802.7	120,754.9	120,486.2	117,619.0	120,038.6	130,719.0	128,137.1
United Kingdom.....	76,995.4	107,756.9	116,558.4	121,099.0	123,028.6	120,588.6	121,714.8	126,701.1	139,526.1	142,087.1	158,394.4	170,833.8	179,927.9	191,013.2	200,433.3
Italy.....	43,615.0	55,030.4	67,712.7	75,312.3	75,732.8	80,082.7	98,245.2	96,619.5	104,325.2	101,573.9	109,411.8	119,050.6	117,325.6	125,506.7	127,067.8
Other European Union.....	102,856.1	115,626.6	150,574.2	157,603.5	156,061.4	144,570.4	151,922.1	147,593.6	152,109.9	159,506.8	171,232.1	180,557.8	183,897.0	191,339.6	191,016.8
Brazil.....	166,631.1	185,986.2	340,602.9	152,000.1	155,447.3	273,100.2	365,211.1	181,495.3	148,615.8	162,202.2	164,091.5	160,454.9	144,440.3	139,709.5	138,046.2
Argentina.....	12,496.5	12,244.0	12,044.2	11,368.8	13,045.1	14,565.7	15,709.0	17,471.1	17,328.9	18,432.3	19,236.9	19,741.9	20,704.2	20,717.0	19,731.8
Chile.....	1,459.0	1,821.6	2,541.1	2,691.5	3,041.0	3,333.5	3,545.2	3,738.8	4,006.6	4,245.7	4,508.4	4,702.1	4,666.3	4,913.9	5,043.6
Peru.....	1,802.3	2,532.9	1,872.2	1,339.6	1,317.7	905.2	925.3	1,210.5	1,928.2	2,184.1	2,582.8	2,555.7	2,307.1	2,339.4	2,461.6
Costa Rica.....	244.7	268.8	339.6	358.1	365.0	510.1	579.0	632.0	673.2	680.6	715.0	743.3	764.7	783.8	799.5
Japan.....	125,643.4	187,958.0	309,237.5	316,894.4	307,708.1	308,165.2	286,996.9	298,006.8	301,308.8	285,252.4	307,205.1	307,637.2	300,659.8	326,146.0	322,334.3
China.....	7,817.8	13,623.6	37,021.7	38,332.6	35,639.2	38,629.9	44,573.4	48,839.2	53,861.9	60,084.2	66,521.7	70,168.9	74,482.6	78,810.1	83,069.4
South Korea.....	6,597.6	8,831.0	17,354.6	19,693.1	22,976.6	25,489.6	30,995.8	35,613.3	39,944.4	44,919.8	47,956.9	46,103.1	46,932.2	51,025.0	51,968.8
Australia.....	23,272.6	28,699.2	36,605.6	38,069.2	38,518.5	40,990.4	42,399.6	43,308.5	45,940.8	47,861.5	47,328.7	50,750.2	52,464.3	53,075.1	54,313.1
Taiwan.....	8,001.0	9,329.1	20,736.9	22,618.3	21,161.7	23,498.4	25,157.3	28,732.1	29,552.5	31,142.0	37,012.2	39,373.8	40,862.0	42,156.2	42,238.5
Singapore.....	4,506.0	8,202.6	10,584.5	11,806.9	12,843.8	11,859.8	15,138.6	16,971.9	16,491.7	16,174.1	18,833.3	18,670.1	20,885.7	20,574.9	21,336.9
Hong Kong.....	6,599.3	7,591.0	11,290.0	12,674.8	16,187.7	17,847.3	20,371.1	21,926.7	21,931.0	24,089.9	25,602.4	23,995.0	22,893.0	24,322.3	24,427.2
India.....	4,507.1	8,123.7	13,925.2	15,758.5	19,288.2	19,869.0	24,376.0	26,693.0	30,136.2	33,660.0	38,339.0	40,869.5	43,535.5	45,340.3	49,724.4
Malaysia.....	2,130.7	2,182.2	3,891.1	4,251.3	4,511.7	5,026.5	6,212.6	6,484.7	6,908.7	8,060.3	8,459.5	7,295.0	7,036.4	7,351.2	8,052.4
Thailand.....	2,132.5	2,595.9	5,205.1	6,956.4	7,748.1	10,513.1	12,970.1	14,970.8	16,087.4	16,969.8	15,812.3	12,519.4	10,961		

Appendix table 6-2

Service industry revenues for selected countries or economies: 1980–2001

(Millions of 1997 U.S. dollars)

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Business services, all countries	1,338,031.7	1,737,392.9	2,295,159.6	2,403,086.6	2,477,486.2	2,619,757.6	2,708,653.7	2,802,351.8	2,991,185.7	3,191,293.7	3,379,381.7	3,591,138.4	3,819,064.7	4,059,353.4	4,184,933.7
United States	415,850.9	576,825.9	769,524.3	805,621.6	789,047.5	810,447.8	841,860.1	889,946.5	949,078.2	1,025,025.1	1,106,357.7	1,211,785.0	1,293,245.0	1,382,380.5	1,400,870.4
Canada	20,917.9	27,270.3	38,484.9	39,010.8	38,798.6	38,410.6	40,367.6	42,934.1	46,329.4	48,592.1	55,537.3	62,100.6	68,427.1	72,728.4	77,481.6
Mexico	16,152.8	16,962.0	17,515.6	18,235.2	20,162.9	23,116.0	25,516.7	27,769.3	26,568.1	27,088.3	28,528.3	29,523.1	32,349.0	34,943.9	36,549.1
European Union	524,913.1	659,107.4	854,369.9	897,257.0	932,596.9	959,327.9	1,001,133.7	1,021,018.9	1,103,339.0	1,153,073.1	1,215,125.3	1,299,524.8	1,410,061.9	1,505,717.5	1,555,029.7
Germany	169,083.3	192,534.2	224,516.4	237,025.3	266,142.5	277,755.0	292,226.1	288,970.3	303,285.3	313,563.5	330,899.5	353,083.5	376,638.6	410,219.6	421,160.1
France	127,632.8	174,926.7	225,327.1	235,745.9	235,069.8	236,558.6	233,217.8	236,621.2	245,942.8	253,356.7	256,357.2	272,301.8	292,965.8	305,749.4	308,995.3
United Kingdom	87,966.0	92,593.8	144,082.7	153,802.3	151,397.5	155,694.5	158,680.0	173,178.1	187,695.1	208,920.1	228,770.0	251,142.7	276,033.6	287,512.3	302,966.2
Italy	46,981.4	77,457.0	99,152.8	99,011.6	100,851.5	103,804.6	123,213.7	118,684.0	147,591.1	143,366.8	148,170.9	150,115.4	168,444.6	185,816.5	194,544.7
Other European Union	93,249.6	121,595.7	161,290.9	171,671.9	179,135.7	185,515.3	193,796.1	203,565.2	218,824.6	233,866.0	250,927.7	272,881.4	295,979.4	316,424.7	327,363.5
Brazil	23,460.1	29,346.6	54,079.5	24,064.8	26,237.4	69,498.4	68,223.6	58,097.3	51,384.2	58,547.4	61,229.0	61,145.8	55,300.7	57,375.3	58,098.6
Argentina	15,330.9	15,131.7	15,185.1	14,392.9	16,498.8	18,412.2	19,727.6	21,786.2	21,390.2	22,759.3	24,394.9	25,147.8	25,921.9	25,483.9	24,460.6
Chile	1,581.9	1,956.3	2,698.0	2,824.4	3,194.8	3,524.9	3,759.5	3,973.4	4,239.3	4,491.0	4,835.3	5,030.6	4,932.0	5,192.8	5,368.9
Peru	2,382.2	2,367.0	3,885.5	3,721.4	3,838.1	3,694.1	3,849.3	3,920.2	4,522.7	4,762.6	5,140.9	4,989.3	4,972.2	4,998.4	5,066.3
Costa Rica	234.8	259.8	327.5	344.7	348.5	487.8	486.0	505.7	515.8	524.3	547.0	574.2	597.8	612.5	606.9
Japan	159,122.3	217,566.7	304,563.4	352,349.8	390,838.8	424,049.6	420,184.9	433,866.8	463,538.3	508,714.5	522,217.3	539,479.3	561,714.4	596,036.6	627,823.5
China	3,909.5	4,585.0	4,129.8	4,261.9	4,736.6	5,550.6	7,575.1	9,301.6	10,297.8	11,903.4	14,056.6	15,893.7	16,653.9	17,911.8	19,398.5
South Korea	4,477.8	9,393.3	16,291.2	18,254.6	21,396.2	23,984.8	26,105.7	28,997.0	32,751.0	35,303.5	36,708.8	32,332.2	36,663.3	38,862.5	41,210.8
Australia	25,329.6	30,452.6	39,877.9	40,244.2	39,532.0	41,386.7	42,299.0	45,273.1	46,961.6	49,364.6	55,299.8	58,441.4	60,204.9	60,311.5	64,168.0
Taiwan	2,059.8	3,035.1	4,845.9	5,496.1	6,203.4	7,130.9	8,213.3	9,715.1	10,635.6	11,764.9	12,993.4	14,223.2	15,155.1	16,528.1	16,805.8
Singapore	2,077.2	3,753.7	4,857.6	5,285.6	5,741.8	5,738.4	5,895.8	6,563.3	7,606.3	9,033.8	9,843.6	9,607.6	9,300.5	9,910.9	10,214.3
Hong Kong	1,998.0	3,343.7	5,707.4	6,379.1	6,819.6	7,398.8	8,227.9	9,391.0	9,723.1	10,115.0	11,033.0	9,707.7	9,415.5	9,911.7	10,205.8
India	5,482.3	5,726.3	6,057.0	5,762.6	5,269.0	5,585.3	6,259.7	6,378.8	6,412.5	6,394.8	6,891.7	7,173.4	8,404.3	8,318.6	9,185.4
Malaysia	1,677.2	1,946.2	3,378.0	3,706.3	4,070.3	4,838.6	6,129.4	6,547.6	7,206.5	8,525.9	9,072.8	7,662.7	7,493.1	7,754.9	8,494.5
Thailand	1,676.8	2,080.0	2,776.4	3,080.5	3,047.5	3,026.0	3,298.6	3,493.2	3,628.0	3,730.5	3,121.7	2,507.0	3,096.4	3,278.6	3,644.3
Philippines	3,050.5	3,023.7	3,725.4	3,856.3	3,908.0	4,036.6	4,162.0	4,333.8	4,515.6	4,745.2	5,070.5	4,932.3	5,066.5	5,122.0	5,204.8
Indonesia	1,681.8	3,471.9	4,857.5	5,389.7	6,123.2	6,592.1	7,086.2	7,817.6	8,663.4	9,191.3	9,613.2	7,191.0	6,887.9	7,439.4	7,694.0
South Africa	7,603.4	8,927.8	9,788.5	9,829.2	9,958.1	10,038.8	10,121.4	10,819.7	11,074.7	11,772.5	12,291.7	13,172.5	13,910.0	14,141.9	14,679.3
Education, all countries	614,228.2	695,776.1	779,432.7	802,386.4	824,064.6	842,966.5	873,850.4	896,903.3	930,979.4	955,279.4	941,026.5	958,064.7	979,607.7	996,689.7	1,003,088.0
United States	78,135.1	83,696.1	94,349.3	96,585.9	97,295.8	98,779.9	100,686.4	102,883.4	106,147.4	108,087.0	109,432.0	110,549.4	113,077.9	115,765.6	116,504.5
Canada	32,116.3	33,933.0	35,955.5	36,582.1	37,257.9	37,507.9	38,009.9	38,474.8	39,069.9	39,852.2	38,604.4	38,416.0	39,343.5	39,751.9	40,038.4
Mexico	12,539.0	16,216.9	17,025.0	16,888.8	17,718.0	18,921.0	20,906.5	22,209.3	21,432.4	21,792.9	21,937.7	22,289.9	22,782.7	22,852.2	22,784.5
European Union	238,629.6	281,059.8	324,375.2	337,600.9	350,738.7	364,159.9	386,416.6	398,074.8	422,906.9	427,312.6	427,100.6	430,188.6	439,590.1	442,048.8	442,041.8
Germany	66,601.8	73,400.6	83,578.3	87,421.0	92,533.6	96,471.1	97,064.2	98,044.7	98,953.9	99,993.9	100,588.4	99,805.1	100,677.0	98,440.6	94,980.5
France	44,835.4	55,110.2	61,870.7	66,780.8	69,243.3	71,801.2	73,479.7	72,932.0	74,610.4	76,043.5	78,110.9	79,688.1	81,199.6	82,038.6	81,771.1
United Kingdom	33,474.2	33,225.6	37,731.1	40,019.6	44,334.5	45,910.1	52,735.4	60,213.1	63,880.5	66,302.0	65,982.3	65,938.3	69,641.8	70,887.5	71,568.6
Italy	25,101.6	38,824.0	46,245.2	46,667.2	45,930.5	47,755.5	56,545.4	57,434.9	64,672.9	62,427.2	61,912.2	62,045.5	62,492.9	62,781.3	63,672.7
Other European Union	68,616.6	80,499.3	94,950.0	96,712.3	98,696.8	102,221.9	106,591.9	109,450.0	120,789.3	122,546.0	120,506.8	122,711.6	125,578.8	127,900.9	130,048.9
Brazil	7,749.1	9,749.2	11,579.2	10,553.1	10,921.7	7,608.1	8,091.8	7,923.4	8,273.2	8,558.8	8,207.2	7,726.6	6,787.5	7,160.7	7,452.4
Argentina	4,718.6	4,844.3	5,273.0	5,897.2	6,329.2	6,837.4	3,704.3	4,085.7	4,138.6	4,289.1	4,580.1	4,610.0	4,879.2	4,795.4	4,440.8
Chile	2,049.9	3,086.5	3,592.2	3,450.4	3,506.1	3,656.3	3,720.2	3,926.8	4,112.0	4,306.9	4,268.2	4,307.8	4,388.2	4,642.6	4,800.1
Peru	214.7	399.6	1,119.3	1,339.2	2,922.9	2,936.5	2,905.4	3,056.0	3,062.3	3,087.5	3,110.1	3,080.0	2,882.4	2,928.1	2,913.5
Costa Rica	103.6	94.7	118.9	125.6	124.3	172.3	194.1	213.7	216.0	217.8	228.5	242.2	249.8	255.7	253.4
Japan	159,623.3	162,841.1	172,775.7	175,851.1	175,013.1	177,830.8	179,399.5	180,014.5	182,665.6	189,914.3	169,841.5	177,737.4	180,749.6	186,689.8	186,160.8
China	7,821.1	13,005.6	14,100.6	14,939.5	15,666.1	17,073.4	19,163.3	20,990.3	21,102.4	24,298.4	27,260.1	32,002.6	35,211.7	38,204.6	41,146.4
South Korea	13,182.8	17,430.7	21,254.1	22,342.3	23,458.8	24,344.0	25,331.9	26,224.4	27,330.0	28,297.8	29,129.1	28,344.1	29,214.5	29,287.1	29,684.9
Australia	13,602.8	17,387.9	21,160.4	21,580.3	21,947.7	23,273.5	23,964.4	24,471.9	24,284.2	25,191.0	25,596.1	25,717.9	26,435.4	26,475.3	27,600.6
Taiwan	1,674.1	2,691.3	3,925.0	4,328.7	5,189.9	5,646.7	6,152.7	6,318.4	6,802.7	7,530.4	8,185.9	8,666.0	9,932.9	9,571.7	9,405.5
Singapore	216.7	280.9	406.9	431.1	475.7	520.0	581.4	632.2	667.7	723.1	784.6	807.2	857.4	882.5	935.5
Hong Kong	586.9	1,113.5	1,597.7	1,722.9	1,752.7	1,801.6	2,160.2	2,388.5	2,638.3	2,833.6	2,986.6	3,070.4	3,043.9	3,238.3	3,278.7
India	1,581.3	1,916.6	2,305.3	2,514.4	2,550.4	2,669.3	3,148.6	3,271.0	3,526.5	3,802.4	4,157.3	4,753.4	4,239.1	4,632.2	5,021.2
Malaysia	186.5	235.1	248.2	264.9	279.2	305.2	322.2	342.5	376.3	407.6	421.5	370.1	384.9	393.5	395.8
Thailand	2,566.7	3,478.8	3,826.0	4,202.0	4,435.5	5,106.2	5,683.1	5,782.3	6,675.5	6,780.7	6,878.4	6,499.3	6,183.5	6,387.9	6,466.0
Philippines	549.6	764.4	1,006.0	1,054.3	1,076.6	1,151.1	1,296.0	1,479.9	1,588.9	1,725.3	1,863.0	2,064.8	2,299.1	2,494.9	

Appendix table 6-2

Service industry revenues for selected countries or economies: 1980–2001

(Millions of 1997 U.S. dollars)

Country/economy	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Health services, all countries	1,189,924.9	1,389,959.6	1,549,691.1	1,593,094.4	1,644,469.0	1,666,623.9	1,689,933.3	1,736,652.4	1,814,792.5	1,862,188.4	1,853,603.5	1,859,493.5	1,869,711.0	1,917,812.0	1,955,349.5
United States	403,419.9	446,297.6	527,857.5	551,648.0	565,265.0	587,114.5	582,902.7	590,532.8	599,215.8	609,452.8	600,031.2	598,868.4	608,623.0	624,088.6	633,533.8
Canada	30,428.5	38,125.4	44,061.3	45,747.3	47,451.9	47,912.4	47,846.6	46,976.1	46,647.5	45,438.6	47,718.4	48,764.5	49,534.4	51,682.0	52,705.7
Mexico	9,970.1	11,700.5	12,051.8	12,861.6	13,307.1	13,228.0	12,571.0	12,209.9	11,751.5	11,453.2	12,586.1	13,178.0	13,637.8	14,155.1	14,113.2
European Union.....	257,904.1	281,671.1	311,901.0	321,973.6	336,024.7	353,933.8	383,508.9	409,778.8	465,707.8	475,545.2	443,871.9	454,952.7	464,761.0	472,165.5	476,120.4
Germany	124,977.5	125,319.5	127,440.2	129,658.3	134,648.7	144,500.2	149,424.6	155,656.9	162,886.8	169,632.5	147,066.4	148,957.4	150,059.7	150,624.0	147,694.2
France.....	16,402.5	13,475.3	17,513.0	19,276.2	19,757.5	21,594.0	20,769.5	21,291.6	18,994.2	20,848.5	20,679.1	21,428.5	21,185.2	22,076.5	21,497.8
United Kingdom.....	24,835.4	21,980.0	21,753.3	24,892.7	28,813.4	31,275.9	44,066.6	61,060.0	67,332.9	71,220.8	72,731.9	75,965.8	79,061.7	81,295.5	83,772.9
Italy.....	18,453.2	31,207.3	39,512.8	40,075.4	41,093.2	43,166.8	53,435.5	55,277.7	62,285.3	55,991.4	54,252.1	53,712.2	55,932.1	55,583.5	56,873.5
Other European Union	73,235.6	89,689.1	105,681.7	108,071.0	111,712.0	113,396.9	115,812.7	116,492.5	154,208.6	157,852.0	149,142.5	154,888.9	158,522.3	162,586.1	166,282.0
Brazil	51,534.4	61,984.0	68,121.9	60,389.0	61,317.7	41,821.3	43,747.0	42,438.6	44,562.5	46,771.9	45,224.2	42,506.8	37,586.5	40,307.5	41,953.9
Argentina	25,850.0	26,561.9	28,621.9	32,041.8	34,301.2	37,246.6	20,225.7	22,312.5	22,509.7	23,439.1	25,238.0	25,360.4	27,007.9	26,702.6	24,728.2
Chile	1,855.8	2,847.2	3,332.3	3,487.6	3,759.3	3,957.0	4,140.2	4,201.8	4,297.5	4,478.2	4,475.0	4,509.6	4,573.5	4,817.9	4,981.4
Peru	614.4	786.5	1,699.6	1,897.1	2,698.6	2,514.1	2,388.0	2,469.3	2,539.4	2,615.0	2,754.4	2,756.9	2,905.2	3,000.3	3,030.7
Costa Rica.....	597.5	546.8	673.9	711.4	697.7	947.3	1,049.5	1,144.6	1,163.5	1,190.2	1,259.0	1,332.6	1,383.5	1,439.2	1,434.8
Japan.....	271,474.3	337,452.9	356,897.6	359,865.5	368,445.4	374,400.1	379,596.4	383,295.1	390,616.3	407,324.8	418,013.4	407,375.8	397,319.1	403,152.1	417,313.4
China	4,723.3	6,396.1	7,995.3	8,700.8	9,622.4	10,679.5	11,332.5	11,648.2	11,473.1	12,882.7	14,416.9	16,214.4	17,559.4	18,718.3	19,841.4
South Korea	1,843.6	4,826.8	5,681.0	5,882.4	6,430.5	6,763.1	6,813.3	7,189.6	7,545.5	7,777.6	14,904.6	15,732.7	16,811.8	16,371.8	16,407.0
Australia.....	17,978.1	20,227.1	23,701.3	25,149.6	25,634.2	26,057.0	26,832.4	28,096.2	29,228.2	30,168.0	32,270.8	32,752.4	34,292.8	34,493.4	35,940.2
Taiwan	1,358.1	2,008.4	3,372.1	3,397.7	3,811.9	4,057.3	4,341.7	4,599.4	5,044.1	5,255.0	5,626.1	6,019.2	6,908.3	7,745.8	8,348.5
Singapore	1,220.5	1,571.9	2,269.6	2,401.8	2,623.6	2,833.3	3,174.0	3,450.3	3,631.5	3,951.5	4,323.4	4,439.8	4,704.8	4,847.0	5,138.0
Hong Kong	3,464.3	6,411.0	8,984.0	9,687.6	9,757.1	10,001.4	11,906.4	13,042.1	14,487.7	15,484.9	16,457.3	16,891.0	16,855.9	18,047.7	18,301.7
India.....	9,161.9	10,815.5	12,785.5	13,955.8	14,040.4	14,387.8	16,866.5	17,520.0	18,995.1	20,779.3	22,907.7	26,150.0	23,474.6	26,077.3	28,478.5
Malaysia	1,274.8	1,548.7	1,460.2	1,516.0	1,567.7	1,677.8	1,741.7	1,834.3	2,026.9	2,227.2	2,322.4	2,036.1	2,131.3	2,215.1	2,228.0
Thailand.....	927.0	1,319.9	1,555.9	1,716.1	1,790.9	2,001.9	2,334.7	2,505.9	2,868.5	3,050.2	3,119.9	2,943.1	2,818.6	2,900.5	3,005.8
Philippines	2,266.9	3,131.9	3,753.5	3,900.3	3,944.6	4,199.0	4,249.4	4,410.5	4,592.6	4,810.3	4,991.3	5,211.2	5,597.1	6,073.8	6,455.7
Indonesia	2,833.2	3,928.9	4,279.4	4,553.2	4,726.1	4,973.6	5,508.4	5,654.4	6,099.8	6,492.3	6,156.2	5,919.8	6,132.0	6,430.1	6,556.8
South Africa	1,904.0	2,401.3	2,659.3	2,850.5	2,982.3	3,109.2	3,156.0	3,474.9	3,841.1	3,967.5	3,951.0	3,935.4	4,022.0	4,097.9	4,185.7

NOTES: Production equals total gross output. Seventy countries or economies are included in "all countries." High-technology sectors cover communications services, finance and insurance, business services, education, and health services. Other European Union countries include Austria, Belgium, Denmark, Finland, Greece, Ireland, Netherlands, Portugal, Spain, and Sweden.

SOURCES: Global Insight, Inc., World Industry Service database, 2003. Historical data are from United Nations Industrial Development Organization, United Nations System of National Accounts, Organisation for Economic Co-operation and Development, and country sources.

Appendix table 6-3

U.S. receipts and payments of royalties and fees associated with affiliated and unaffiliated foreign companies: 1987–2001

(Millions of U.S. dollars)

Year	Receipts			Payments			Balance		
	All	Affiliated	Unaffiliated	All	Affiliated	Unaffiliated	All	Affiliated	Unaffiliated
1987	9,914	7,629	2,285	1,844	1,296	547	8,070	6,333	1,738
1988	11,802	9,156	2,646	2,585	1,410	1,175	9,217	7,746	1,471
1989	13,064	10,207	2,857	2,602	1,778	824	10,462	8,429	2,033
1990	16,634	13,251	3,384	3,135	2,206	929	13,499	11,045	2,455
1991	18,107	14,395	3,712	4,076	2,996	1,080	14,031	11,399	2,632
1992	19,715	15,718	3,997	5,074	3,381	1,694	14,641	12,337	2,303
1993	20,323	15,707	4,616	4,765	3,364	1,401	15,558	12,343	3,215
1994	26,712	20,275	6,437	5,852	3,934	1,919	20,860	16,341	4,518
1995	30,289	22,859	7,430	6,919	5,257	1,663	23,370	17,602	5,767
1996	32,470	24,556	7,914	7,837	5,406	2,431	24,633	19,150	5,483
1997	33,639	24,876	8,763	9,614	7,202	2,412	24,025	17,674	6,351
1998	35,626	26,313	9,314	11,235	8,547	2,688	24,391	17,766	6,626
1999	36,902	26,507	10,395	12,609	9,876	2,733	24,293	16,631	7,662
2000	39,607	26,816	12,791	16,115	12,180	3,935	23,492	14,636	8,856
2001	38,668	25,873	12,795	16,359	13,008	3,351	22,309	12,865	9,444

NOTES: Details may not add to totals because of rounding. Affiliate refers to a business enterprise located in one country that is directly or indirectly owned or controlled by an entity in another country. Controlling interest must equal 10 percent or more of its voting stock or its equivalent.

SOURCE: U.S. Bureau of Economic Analysis, *Survey of Current Business*, 80 (10): 67–124, 2002.

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U.S. receipts and payments of royalties and license fees generated from exchange and use of industrial processes with unaffiliated foreign companies, by region or country/economy: 1987-2001

(Millions of U.S. dollars)

Region or country/economy	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Receipts															
All countries/economies.....	1,678	1,962	2,051	2,333	2,434	2,525	2,820	3,026	3,513	3,566	3,544	3,499	3,900	4,705	4,852
Canada.....	87	60	62	79	62	47	41	54	55	82	92	82	118	159	151
Europe	446	517	530	630	575	637	642	768	829	1,042	979	1,170	1,416	1,446	1,493
Eastern Europe ^a	7	32	12	15	8	D	16	30	21	11	7	14	34	5	9
European Union ^b	353	410	378	500	475	498	496	598	756	937	885	1,071	1,283	1,314	1,350
Belgium-Luxembourg.....	29	37	34	22	34	25	49	88	83	90	57	72	102	126	100
France	73	82	52	78	91	64	89	107	84	123	92	142	226	153	203
Germany ^c	79	73	77	107	97	108	109	142	171	219	184	243	297	373	368
Italy.....	57	73	68	105	70	99	69	71	66	66	77	53	117	106	106
Netherlands	31	40	37	59	35	60	27	30	36	80	71	59	45	54	49
Spain	13	26	20	21	29	20	23	18	31	28	29	27	18	14	19
Sweden ^b	31	19	53	44	35	48	53	55	106	137	115	148	100	85	52
United Kingdom	60	67	81	91	106	103	103	113	115	129	147	154	216	156	178
Norway	10	10	32	10	14	5	3	15	5	3	4	3	2	2	3
Switzerland	16	14	23	24	15	50	45	44	41	84	76	77	94	122	129
All others.....	29	32	32	37	28	36	29	26	6	7	7	5	3	5	2
South/Central America.....	64	48	54	59	85	73	D	83	D	D	81	109	96	85	99
Brazil	19	7	14	8	8	6	7	8	9	14	17	17	10	D	D
Mexico	14	13	18	23	31	29	28	33	24	26	32	40	36	22	30
All others.....	31	28	22	28	46	38	D	42	D	D	11	D	50	17	D
Africa	D	22	24	22	34	27	36	26	35	28	15	17	19	14	17
Middle East	D	18	17	22	25	21	33	20	35	25	41	20	50	81	52
Asia and Pacific.....	936	1,185	1,248	1,465	1,638	1,704	1,966	2,063	2,462	2,299	2,299	2,094	2,188	2,910	3,029
China	NA	NA	NA	NA	NA	NA	NA	33	31	43	52	47	32	44	45
Hong Kong	4	6	7	6	6	11	12	15	22	19	21	23	12	12	14
India.....	18	40	26	21	14	34	D	28	27	37	29	20	17	23	20
Indonesia	5	5	8	11	20	13	20	20	15	13	26	11	21	15	9
Japan.....	723	883	897	1,028	1,219	1,268	1,434	1,372	1,548	1,429	1,508	1,172	1,161	1,636	1,879
Malaysia	—	—	2	2	2	7	18	19	D	D	12	43	12	10	11
Philippines	3	4	4	4	2	3	D	1	2	2	7	8	7	7	4
Singapore	30	13	8	19	21	20	20	73	34	37	39	37	37	20	16
South Korea	34	107	167	249	225	220	278	396	607	478	389	483	650	896	742
Taiwan	21	46	34	55	57	42	34	39	80	130	144	192	187	196	229
All others ^d	98	81	95	70	72	86	D	67	96	D	1	58	52	3	60
All other countries	145	112	116	56	15	16	102	12	97	90	37	7	13	34	11
Payments															
All countries/economies.....	459	525	612	665	796	818	1,054	1,034	948	1,319	1,417	1,319	1,568	1,695	1,815
Canada.....	9	11	8	16	11	10	8	11	13	66	89	82	136	117	118
Europe	320	355	433	482	637	635	820	712	572	782	729	705	766	908	1,115
Eastern Europe ^a	—	—	1	D	1	3	9	D	1	4	2	—	D	1	8
European Union ^b	248	279	342	360	426	417	472	395	461	649	558	555	578	695	829
Belgium-Luxembourg.....	5	7	10	15	14	21	22	27	30	D	30	29	31	29	30
France	33	37	51	54	73	D	92	92	121	192	D	D	D	133	D

U.S. receipts and payments of royalties and license fees generated from exchange and use of industrial processes with unaffiliated foreign companies, by region or country/economy: 1987-2001

(Millions of U.S. dollars)

Region or country/economy	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Germany ^c	100	112	137	133	182	D	187	113	110	148	149	124	148	211	263
Italy.....	25	20	22	29	34	24	9	7	9	49	35	18	6	12	11
Netherlands	5	5	8	9	14	14	15	22	27	24	30	33	37	33	30
Spain	—	—	1	1	—	1	1	—	1	1	1	3	D	D	D
Sweden ^b	D	D	D	62	122	D	198	D	3	49	61	55	57	69	54
United Kingdom	72	90	102	111	106	125	123	104	126	135	118	146	147	162	160
Norway	1	D	D	D	D	D	D	D	D	5	9	6	9	5	D
Switzerland	27	9	6	19	26	45	60	114	79	72	86	76	112	135	159
All others.....	44	67	84	41	62	170	81	203	31	52	74	68	67	72	119
South/Central America.....	5	—	—	—	1	D	D	D	D	D	28	45	29	120	82
Brazil	—	—	—	—	—	—	2	2	—	—	4	D	D	D	D
Mexico	3	—	—	—	—	1	—	1	D	5	D	2	7	14	6
All others.....	2	NA	NA	NA	1	D	D	D	D	D	D	D	D	D	D
Africa	—	4	—	0	—	—	—	1	—	4	5	—	—	D	—
Middle East	2	3	4	3	4	5	9	9	13	12	9	5	14	26	22
Asia and Pacific.....	95	112	120	160	140	152	200	283	333	401	530	480	614	515	472
China	NA	NA	NA	NA	NA	NA	NA	7	—	D	D	D	13	6	2
Hong Kong	1	—	—	0	—	—	2	3	D	2	2	—	2	2	1
India.....	—	—	—	—	—	—	0	—	—	D	D	—	1	D	D
Indonesia	0	—	0	0	0	—	0	0	—	—	—	—	—	D	D
Japan.....	88	108	109	141	138	145	191	262	307	308	360	374	550	460	412
Malaysia	0	0	0	0	0	0	—	0	—	3	3	—	—	—	D
Philippines	0	—	1	0	0	—	—	—	—	1	—	—	—	—	—
Singapore	—	0	0	0	—	D	—	—	—	—	2	—	—	—	D
South Korea	—	—	D	D	—	1	1	6	D	D	D	D	22	19	18
Taiwan	—	—	D	1	—	2	2	2	—	2	4	—	7	D	2
All others ^d	—	4	10	D	2	D	4	3	26	—	D	D	D	D	D
All other countries	28	40	47	4	3	16	17	18	17	54	27	47	112	9	6
Balance															
All countries/economies.....	1,219	1,437	1,439	1,668	1,638	1,707	1,766	1,992	2,565	2,247	2,127	2,180	2,332	3,010	3,037
Canada.....	78	49	54	63	51	37	33	43	42	16	3	0	-18	42	33
Europe	126	162	97	148	-62	2	-178	56	257	260	250	465	650	538	378
Eastern Europe ^a	—	—	11	—	7	—	7	—	20	7	5	—	—	4	1
European Union ^b	105	131	36	140	49	81	24	203	295	288	327	516	705	619	521
Belgium-Luxembourg.....	24	30	24	7	20	4	27	61	53	—	27	43	71	97	70
France	40	45	1	24	18	—	-3	15	-37	-69	—	—	—	20	—
Germany ^c	-21	-39	-60	-26	-85	—	-78	29	61	71	35	119	149	162	105
Italy.....	32	53	46	76	36	75	60	64	57	17	42	35	111	94	95
Netherlands	26	35	29	50	21	46	12	8	9	56	41	26	8	21	19
Spain	—	—	19	20	—	19	22	—	30	27	28	24	—	—	—
Sweden ^b	—	—	—	-18	-87	—	-145	—	103	88	54	93	43	16	-2
United Kingdom	-12	-23	-21	-20	0	-22	-20	9	-11	-6	29	8	69	-6	18
Norway	9	—	—	—	—	—	—	—	—	-2	-5	-3	-7	-3	—
Switzerland	-11	5	17	5	-11	5	-15	-70	-38	12	-10	1	-18	-13	-30

Appendix table 6-4

(Page 3 of 3)

U.S. receipts and payments of royalties and license fees generated from exchange and use of industrial processes with unaffiliated foreign companies, by region or country/economy: 1987–2001

(Millions of U.S. dollars)

Region or country/economy	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All others.....	-15	-35	-52	-4	-34	-134	-52	-177	-25	-45	-67	-63	-64	-67	-117
South/Central America.....	59	—	—	—	84	—	—	—	—	—	53	64	67	-35	17
Brazil	—	—	—	—	—	—	5	6	—	—	13	—	—	—	—
Mexico	11	—	—	—	—	28	—	32	—	21	—	38	29	8	24
All other	29	—	—	—	45	—	—	—	—	—	—	—	—	—	—
Africa	—	18	—	22	—	—	—	25	—	24	10	—	—	—	—
Middle East	—	15	13	19	21	16	24	11	22	13	32	15	36	55	30
Asia and Pacific.....	841	1,073	1,128	1,305	1,498	1,552	1,766	1,780	2,129	1,898	1,769	1,614	1,574	2,395	2,557
China	—	—	—	—	—	—	—	26	—	—	—	—	19	38	43
Hong Kong	3	—	—	6	—	—	10	12	—	17	19	—	10	10	13
India.....	—	—	—	—	—	—	—	—	—	—	—	—	16	—	—
Indonesia	5	—	8	11	20	—	20	20	—	—	—	—	—	—	—
Japan.....	635	775	788	887	1,081	1,123	1,243	1,110	1,241	1,121	1,148	798	611	1,176	1,467
Malaysia	—	—	2	2	2	7	—	19	—	—	9	—	—	—	—
Philippines	3	—	3	4	2	—	—	—	—	1	—	—	—	—	—
Singapore	—	13	8	19	—	—	—	—	—	—	37	—	—	—	—
South Korea	—	—	—	—	—	219	277	390	—	—	—	—	628	877	724
Taiwan	—	—	—	54	—	40	32	37	—	128	140	—	180	—	227
All others ^d	—	77	85	—	70	—	—	64	70	—	—	—	—	—	—
All other countries	117	72	69	52	12	0	85	-6	80	36	10	-40	-99	25	5

— less than \$500,000

D withheld to avoid disclosing operations of individual companies

NA not available

^aComprises Albania, Azerbaijan, Belarus, Bulgaria, Czech Republic, Estonia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Poland, Romania, Russia, Slovakia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.^bAustria, Finland, and Sweden joined European Union in 1995. European Union countries not listed separately are Denmark, Greece, Ireland, and Portugal.^cData before 1990 are for the former West Germany only. Beginning in 1990, data include former East Germany.^dIncludes data before 1994.

NOTES: Industrial processes include patents and other proprietary inventions and technology. Affiliate refers to a business enterprise located in one country that is directly or indirectly owned or controlled by an entity in another country. Controlling interest must equal 10 percent or more of its voting stock or its equivalent.

SOURCE: U.S. Bureau of Economic Analysis, *Survey of Current Business*, vol. 80 (10): 67–124, 2002.

Science & Engineering Indicators – 2004

Appendix table 6-5

Leading indicators of technological competitiveness: 2002

(Index)

Region or country/economy	National orientation	Socioeconomic infrastructure	Technological infrastructure	Productive capacity	Total
Argentina.....	44.9	52.4	31.0	32.5	160.7
Brazil.....	52.5	50.5	35.4	35.8	174.2
China.....	63.0	55.0	55.2	49.6	222.7
Czech Republic.....	64.6	64.4	34.7	44.6	208.3
Germany.....	75.6	78.2	65.5	65.0	284.3
Hungary.....	66.7	67.9	40.0	42.2	216.7
India.....	62.5	49.3	37.0	47.8	196.6
Indonesia.....	45.1	39.1	20.7	27.7	132.6
Ireland.....	84.1	80.7	44.2	53.0	262.0
Israel.....	79.5	85.0	52.3	49.4	266.2
Japan.....	76.4	67.6	73.8	80.3	298.1
Malaysia.....	73.0	64.9	28.8	39.1	205.9
Mexico.....	55.2	49.0	28.7	35.4	168.2
Philippines.....	59.3	55.0	24.0	45.0	183.3
Poland.....	63.7	68.3	36.6	42.5	211.1
South Korea.....	80.4	81.1	45.2	52.3	259.0
Taiwan.....	83.0	84.4	45.3	59.6	272.2
United States.....	79.8	85.9	92.7	82.8	341.2
Thailand.....	47.7	54.2	23.9	30.9	156.7
Venezuela.....	37.2	46.0	19.5	20.3	123.0

NOTES: For score and indicator calculations, raw data were transformed into scales of 0–100 for each indicator component and then averaged to generate comparable indicators with a 0–100 range. For survey items, 100 represents the highest response category for each question; for statistical data, 100 typically represents the value attained by the country with the largest value among the 33 countries included in the study. In the indicator formulations cited below, each term carries equal weight.

National orientation (NO) provides evidence that a nation is taking directed action to achieve technological competitiveness. These actions could take place in the business, government, or cultural sector or any combination of the three.

Indicator formulation: $NO = [Q1 + (Q2 + Q3)/2 + Q4 + F1V2002]/4$.

Data used: Published data from the PRS Group, Political and Economic Forecast table, Political Risk Letter for 2002 rating each country's investment risk (F1V2002); and survey data assessing each country's national strategy to promote high-technology development (Q1), social influences favoring technological change (Q2 and Q3), and entrepreneurial spirit (Q4).

Socioeconomic infrastructure (SE) assesses the social and economic institutions that support and maintain the physical, human, organizational, and economic resources essential to the functioning of a modern, technology-based industrial nation.

Indicator formulation: $SE = (Q5 + Q10 + HMHS2000)/3$.

Data used: Published data on the percentage of students enrolled in secondary (net percentage) and tertiary (gross percentage) education (HMHS2000) from the Harbison-Myers Skills Index for 2000, *Gross and Net Enrollment Ratio at Secondary Level by Country and by Gender for the School Years 1998/1999 and 1999/2000*, Institute for Statistics, United Nations Educational, Scientific, and Cultural Organization (UNESCO), October 2002 and *Gross Enrollment Ratio at Tertiary Level by Country and Gender for the Academic Years 1998/1999 and 1999/2000*, Institute for Statistics, UNESCO, October 2002; and survey data assessing each country's efforts to attract foreign investment (Q10) and the mobility of capital (Q5).

Technological infrastructure (TI) assesses the institutions and resources that contribute to a nation's capacity to develop, produce, and market new technology.

Indicator formulation: $TI = [(Q7 + Q8)/2 + Q9 + Q11 + EDP2002 + S\&E2000]/5$.

Data used: Published data from *Science and Technology*, Personnel Engaged in R&D by Category of Personnel (new available data for 1996-2000), Institute for Statistics, UNESCO, November 2002, on the number of scientists and engineers involved in research in 2000 (S&E 2000), national purchases of electronic data-processing equipment (EDP2002) from Reed Electronics Research, *Yearbook of World Electronics Data 2002/2003*, Reed Business Information Ltd., England, 2002; and survey data assessing linkages of R&D to industry (Q9), output of indigenous academic S&E (Q7 and Q8), and the ability to make effective use of technological knowledge (Q11).

Productive capacity (PC) assesses the physical and human resources devoted to manufacturing products and the efficiency with which those resources are employed.

Indicator formulation: $PC = (Q6 + Q12 + Q13 + A262002)/4$.

Data used: Published data on electronics production (A262002) from Reed Electronics Research, *Yearbook of World Electronics Data 2002/2003*, Reed Business Information Ltd., England, 2002; and survey data assessing the supply and quality of skilled labor (Q6), capability of the indigenous management (Q13), and the existence of indigenous suppliers of components for technology-intensive products (Q12).

SOURCE: Georgia Technology Research Co., *High Tech Statistics, Preliminary Report* (Atlanta, GA, 2003).

Appendix table 6-6

Leading indicators of technological competitiveness: 1999

(Index)

Region or country/economy	National orientation	Socioeconomic infrastructure	Technological infrastructure	Productive capacity	Total
Argentina.....	41.3	53.3	27.5	31.0	153.1
Brazil.....	61.5	49.1	40.4	39.6	190.6
China.....	65.3	52.4	46.4	41.9	206.0
Czech Republic.....	68.2	58.9	41.5	44.6	213.2
Hungary.....	73.7	60.9	43.0	42.2	219.8
India.....	67.7	48.4	46.8	51.3	214.2
Indonesia.....	53.9	43.8	19.2	23.7	140.6
Ireland.....	92.2	75.6	48.0	55.9	271.7
Israel.....	92.0	74.1	58.2	50.6	274.9
Malaysia.....	69.5	58.9	31.9	44.1	204.4
Mexico.....	41.8	40.4	21.8	24.8	128.8
Philippines.....	60.9	63.7	24.4	42.6	191.6
Poland.....	69.6	58.4	38.2	44.3	210.5
South Korea.....	74.9	73.5	44.6	48.8	241.8
Taiwan.....	90.7	74.2	43.6	53.7	262.2
Thailand.....	50.7	46.5	20.5	30.6	148.3
Venezuela.....	39.8	49.4	21.3	24.3	134.8

NOTES: For score and indicator calculations, raw data were transformed into scales of 0–100 for each indicator component and then averaged to generate comparable indicators with a 0–100 range. For survey items, 100 represents the highest response category for each question; for statistical data, 100 typically represents the value attained by the country with the largest value among the 30 countries included in the study. In the indicator formulations cited below, each term carries equal weight.

National orientation (NO) provides evidence that a nation is taking directed action to achieve technological competitiveness. These actions could take place in the business, government, or cultural sector or any combination of the three.

Indicator formulation: $NO = [Q1 + (Q2 + Q3)/2 + Q4 + F1V99]/4$.

Data used: Published data from the PRS Group, Political and Economic Forecast table, Political Risk Letter for 1999 rating each country's investment risk (F1V99); and survey data assessing each country's national strategy to promote high-technology development (Q1), social influences favoring technological change (Q2 and Q3), and entrepreneurial spirit (Q4).

Socioeconomic infrastructure (SE) assesses the social and economic institutions that support and maintain the physical, human, organizational, and economic resources essential to the functioning of a modern, technology-based industrial nation.

Indicator formulation: $SE = (Q5 + Q10 + HMHS99)/3$.

Data used: Published data on the percentage of students enrolled in secondary and tertiary education (HMHS99) from the Harbison-Myers Skills Index for 1999, table 2.10, *1999 World Development Indicators*, World Bank, 1999; and survey data assessing each country's efforts to attract foreign investment (Q10) and the mobility of capital (Q5).

Technological infrastructure (TI) assesses the institutions and resources that contribute to a nation's capacity to develop, produce, and market new technology.

Indicator formulation: $TI = [(Q7 + Q8)/2 + Q9 + Q11 + EDP99 + S\&E96]/5$.

Data used: Published data from *Statistical Yearbook 1998*, UNESCO, 1998, on the number of scientists and engineers involved in research in 1996 (S&E 96), national purchases of electronic data-processing equipment (EDP99) from Reed Electronics Research, *Yearbook of World Electronics Data 1999/2000*, Reed Business Information Ltd., England, 1999; and survey data assessing linkages of R&D to industry (Q9), output of indigenous academic S&E (Q7 and Q8), and the ability to make effective use of technological knowledge (Q11).

Productive capacity (PC) assesses the physical and human resources devoted to manufacturing products and the efficiency with which those resources are employed.

Indicator formulation: $PC = (Q6 + Q12 + Q13 + A2699)/4$.

Data used: Published data on electronics production (A2696) from Reed Electronics Research, *Yearbook of World Electronics Data 1999/2000*, Reed Business Information Ltd., England, 1999; and survey data assessing the supply and quality of skilled labor (Q6), capability of the indigenous management (Q13), and the existence of indigenous suppliers of components for technology-intensive products (Q12).

SOURCE: A. L. Porter, J. D. Roessner, N. Newman, and X. Y. Jin, *Indicators of Technology-Based Competitiveness of Nations, Summary Report* (Atlanta, GA, 2000).

Appendix table 6-7

U.S. industrial R&D performance: 1987–2000

(Millions of PPP dollars)

Industry	ISIC code	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total business enterprise		92,155.0	97,014.8	102,054.7	109,727.3	116,952.0	119,110.0	117,399.0	119,595.0	132,103.0	144,667.0	157,539.0	169,180.0	182,823.0	199,539.0
Total manufacturing	15–37	84,311.0	86,502.0	88,024.0	88,934.0	88,506.0	90,177.0	90,931.0	96,307.0	104,237.0	116,953.0	125,902.0	125,447.0	122,565.0	129,594.0
Food, beverages, and tobacco	15, 16	1,206.0	1,229.3	1,275.3	1,414.4	1,277.0	1,386.0	1,345.0	1,476.0	1,566.0	1,564.0	1,907.9	1,949.41	534.21	587.0
Food, products, and beverages	15	NA	NA	NA	NA	NA	1,346.0	1,305.0	NA	NA	NA	NA	NA	NA	NA
Tobacco products	16	NA	NA	NA	NA	NA	40.0	40.0	NA	NA	NA	NA	NA	NA	NA
Textiles, fur, and leather	17–19	243.0	259.9	260.4	296.9	283.0	275.0	318.2	356.8	395.1	485.7	535.0	577.0	337.0	266.0
Textiles	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	257.0	NA	NA
Wearing apparel and fur	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	294.0	NA	NA
Leather products and footwear	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.0	NA	NA
Wood, paper, printing, and publishing	20–22	741.0	961.0	1,075.8	1,303.8	1,445.5	1,491.9	1,916.2	2,010.0	2,010.5	2,925.0	2,284.3	2,693.0	2,961.3	3,270.4
Wood and cork (not furniture)	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70.0	180.0
Pulp, paper, and paper products	21	604.0	788.1	879.0	1,059.0	1,235.1	1,245.4	1,649.1	1,693.8	1,773.1	2,181.1	1,901.5	NA	NA	NA
Publishing, printing, and reproduction of recorded media	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coke, refined petroleum products, and nuclear fuel	23	1,897.0	1,997.0	2,180.0	2,306.0	2,498.0	2,277.0	2,152.0	1,950.0	1,760.0	1,654.0	1,689.7	1,808.0	615.0	1,176.2
Chemicals and chemical products	24	9,635.0	11,067.0	12,069.0	13,291.0	14,648.0	15,381.0	17,520.6	17,463.0	17,613.2	18,867.1	19,130.7	21,930.0	20,372.0	21,284.0
Chemicals (less pharmaceuticals)	24–2423	5,535.0	6,160.8	6,261.4	7,003.7	7,587.2	7,437.0	8,374.6	7,830.0	7,398.2	9,094.1	7,232.1	9,263.1	8,067.5	8,338.8
Pharmaceuticals	2423	4,100.0	4,906.2	5,807.7	6,287.4	7,060.8	7,944.0	9,146.0	9,633.0	10,215.0	9,773.0	11,898.7	12,666.9	12,304.5	12,945.2
Rubber and plastic products	25	607.0	752.5	884.7	1,152.6	1,236.2	1,323.3	1,178.4	1,617.0	1,254.6	1,488.9	1,438.9	1,841.7	1,845.0	1,693.0
Nonmetallic mineral products	26	995.0	737.7	636.8	615.8	483.5	509.7	538.0	591.0	448.0	468.0	633.5	727.0	617.0	886.0
Basic metals	27	730.0	637.1	686.0	739.0	714.0	522.0	669.0	690.0	593.0	746.2	988.0	785.0	470.0	624.0
Fabricated metal products	28	783.0	881.0	904.0	939.0	974.0	1,017.0	1,158.0	1,111.0	1,023.0	1,551.1	1,818.0	1,643.0	1,704.0	1,939.0
Machinery NEC	29	2,428.0	2,682.2	2,729.1	2,753.0	3,554.8	3,533.8	3,431.0	4,004.0	5,041.0	6,108.1	5,888.7	6,116.0	6,327.0	6,766.0
Office, accounting, and computing machinery	30	9,347.0	10,444.3	11,704.6	11,693.0	11,220.2	11,404.2	9,313.0	9,664.0	8,869.0	13,221.0	18,238.3	14,102.0	9,403.2	10,322.0
Electrical machinery	31	1,239.0	1,419.2	2,126.0	3,444.0	3,090.5	2,722.0	2,537.0	2,664.0	3,473.0	3,360.0	4,507.4	4,845.2	4,224.5	3,828.4
Radio, television, and communication equipment and apparatus	32	14,609.0	12,708.8	11,192.0	9,956.0	10,324.5	10,638.0	10,812.0	12,674.0	15,278.0	19,138.0	20,464.6	21,329.8	17,668.8	25,795.0
Electronic components (includes semi-conductors)	321	4,286.0	4,133.1	4,025.4	3,914.1	NA	NA	NA	NA	NA	NA	NA	NA	10,827.0	12,919.0
Television, radio, and communication equipment	32–321	10,323.0	8,575.7	7,166.6	6,041.9	NA	NA	NA	NA	NA	NA	NA	NA	6,841.8	12,876.0
Instruments, watches, and clocks	33	5,222.0	5,530.0	5,992.0	7,055.0	8,705.0	9,542.0	10,119.0	11,441.0	11,976.0	12,149.0	13,835.0	14,833.1	19,566.0	19,191.0
Motor vehicles	34	9,279.4	10,085.4	11,020.1	10,255.6	10,387.6	9,923.6	11,718.0	13,405.7	15,003.4	16,021.9	15,201.5	14,315.0	18,274.0	18,581.4
Other transport equipment	35	24,966.6	24,689.6	22,838.9	21,105.4	17,040.4	17,570.4	15,539.0	14,681.3	17,437.6	16,715.1	16,795.5	14,981.0	15,784.0	11,603.6
Ships	351	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aerospace	353	24,458.0	24,168.0	22,331.0	20,635.0	16,629.0	17,158.0	15,056.0	14,260.0	16,951.0	16,224.0	16,298.0	14,457.4	14,425.0	10,319.0
Other transport NEC	352, 359	508.6	521.6	507.9	470.4	411.4	412.4	483.0	421.3	486.6	491.1	497.5	523.6	1,359.0	1,284.6
Furniture, other manufacturing NEC	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	862.0	782.0
Electricity, gas, and water	40, 41	266.0	236.0	234.0	244.0	278.0	292.0	342.0	403.0	440.0	352.0	300.0	303.2	142.0	155.0
Construction	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	283.0	261.0	445.9	699.0	241.0
Total services	50–99	7,844.0	10,512.8	14,030.7	20,793.3	28,446.0	28,933.0	26,468.0	23,288.0	27,866.0	26,958.0	30,964.0	42,884.0	57,063.2	68,564.0
Wholesale, retail trade, motor vehicle repair, etc.	50–52	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,389.0	8,150.0	12,019.5	19,960.0	25,132.0
Hotels and restaurants	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	272.0	155.0	113.0	NA	NA
Transport and storage	60–63	NA	NA	NA	NA	NA	NA	NA	NA	NA	223.0	681.0	424.5	466.0	277.0
Communications	64	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,103.0	2,017.0	2,151.8	NA	NA
Post	641	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.0	58.0	103.0	NA	NA
Telecommunications	642	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,030.0	1,959.0	2,048.8	1,564.5	1,407.0
Financial intermediation (includes insurance)	65–67	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,297.0	1,499.1	1,586.7	1,577.2	4,025.0
Computer and related activities	72	3,805.0	3,828.0	3,784.0	4,629.0	5,769.0	6,663.0	5,003.0	4,292.8	7,822.0	6,944.1	8,868.0	11,935.1	10,670.3	14,799.0
Software consultancy	722	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,691.0	7,658.0
Other computer services NEC	72–722	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,979.3	7,141.0
Research and development	73	919.0	1,164.0	1,405.0	1,335.0	9,302.0	9,667.0	2,541.0	3,765.0	4,584.4	5,484.0	7,029.3	9,169.0	11,264.0	14,018.0

ISIC International Standard Industrial Classification; NA not available; NEC not elsewhere classified; PPP purchasing power parity

NOTES: Wood, paper, printing, and publishing (ISIC, R-3: 20...22) includes furniture (ISIC, R-3: 361). Pulp, paper, and paper products (ISIC, R-3: 21) includes publishing, printing, and reproduction of recorded media (ISIC, R-3: 22). Other transport NEC (ISIC, R-3: 3 for 1987–95). Total services (ISIC, R-3: 50...99) includes agriculture (ISIC, R-3: 1+2+5); mining (ISIC, R-3: 10...14); electricity, gas, and water (ISIC, R-3: 40+41), and construction (ISIC, R-3: 45). Industry-level data may not add to totals because of rounding and incomplete data.

SOURCE: Organisation for Economic Co-operation and Development, EAS, ANBERD database, July 2002.

Appendix table 6-8

Japan industrial R&D performance: 1987–2000

(Millions of PPP dollars)

Industry	ISIC code	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total business enterprise		30,901.0	35,424.4	41,340.2	47,450.1	50,466.4	50,811.2	49,122.5	49,727.6	55,288.9	60,733.6	65,384.0	64,814.4	65,603.8	69,699.7
Total manufacturing	15–37	29,819.6	34,119.5	39,833.9	45,574.5	48,574.3	48,641.0	46,891.6	47,504.3	53,198.3	57,372.2	61,997.0	60,840.8	61,677.2	66,191.8
Food products and beverages.....	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tobacco products.....	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Textiles	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wearing apparel and fur.....	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Leather products and footwear.....	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wood and cork (not furniture).....	20	76.7	87.4	150.8	126.3	160.9	145.9	168.2	176.9	202.8	197.2	206.3	207.5	168.6	193.6
Pulp, paper, and paper products.....	21	262.6	334.0	398.0	442.3	474.4	397.0	394.9	405.0	478.8	502.4	526.9	NA	NA	NA
Publishing, printing, and reproduction of recorded media.....	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coke, refined petroleum products, and nuclear fuel.....	23	334.2	367.4	423.1	471.6	459.0	478.2	444.9	437.9	398.7	377.4	395.9	302.1	247.8	228.1
Chemicals and chemical products.....	24	5,218.5	5,834.5	6,602.4	7,265.6	8,019.2	8,535.8	8,486.1	8,556.9	9,149.5	9,620.2	9,750.0	9,787.7	9,800.8	10,435.0
Pharmaceuticals.....	2423	1,811.4	2,042.3	2,289.2	2,642.6	3,056.6	3,419.5	3,413.8	3,504.1	3,778.9	4,028.3	3,946.3	4,087.6	4,254.9	4,789.1
Rubber and plastic products.....	25	814.7	943.4	1,168.6	1,176.9	1,325.7	1,326.9	1,294.5	1,375.7	1,452.1	1,589.2	1,569.6	1,562.5	1,603.8	1,669.6
Nonmetallic mineral products.....	26	847.1	973.7	1,112.7	1,104.1	1,345.9	1,139.8	1,078.4	1,009.3	1,176.7	1,290.4	1,305.0	1,303.2	1,133.2	1,134.3
Basic metals	27	1,664.9	1,813.8	1,985.8	2,279.0	2,637.5	2,435.0	2,361.5	2,086.2	2,160.4	2,142.3	2,299.8	1,975.8	1,892.3	1,942.3
Fabricated metal products.....	28	451.6	439.2	549.4	664.6	711.2	674.4	654.3	616.9	694.9	892.1	816.2	753.9	676.9	775.8
Machinery NEC.....	29	2,534.5	2,771.7	3,386.7	4,110.6	4,349.0	4,235.7	4,355.9	4,617.7	4,934.6	5,253.8	5,659.6	5,656.1	5,839.0	6,447.3
Office, accounting, and computing machinery.....	30	2,223.0	2,954.7	4,084.6	4,591.3	4,829.6	4,382.8	4,358.2	4,295.9	4,987.6	6,020.9	6,403.7	6,468.2	7,034.1	7,560.4
Electrical machinery.....	31	3,170.0	3,636.4	4,353.9	5,108.7	5,233.2	5,145.6	5,274.5	5,564.2	6,077.9	6,601.7	6,918.1	6,746.3	6,231.0	6,848.4
Radio, television, and communication equipment and apparatus.....	32	5,581.0	6,293.9	6,652.3	7,445.8	8,106.3	8,487.0	7,702.5	8,194.2	9,701.6	9,798.0	10,749.7	10,850.7	11,734.8	13,090.7
Instruments, watches, and clocks.....	33	972.5	1,170.4	1,337.2	1,722.1	1,626.8	1,740.5	1,747.2	1,842.6	2,091.3	2,211.7	2,582.1	2,842.9	3,033.5	3,124.6
Motor vehicles.....	34	3,771.7	4,511.5	5,385.9	6,556.8	6,549.9	6,738.6	5,807.5	5,521.4	6,721.2	7,757.4	8,494.0	8,317.1	7,971.7	8,638.8
Other transport equipment	35	423.3	360.2	454.8	562.8	715.6	543.8	576.8	507.3	564.7	658.9	873.7	893.6	867.0	760.1
Building and repairing of ships and boats.....	351	41.8	46.2	58.9	66.1	75.8	101.9	99.2	87.3	81.8	74.7	67.3	120.4	61.0	58.5
Aircraft and spacecraft.....	353	281.3	239.6	311.0	407.2	550.4	350.5	381.3	316.5	365.4	449.5	647.0	623.0	636.9	550.8
Furniture, other manufacturing NEC.....	36	259.8	278.5	312.1	356.4	401.4	411.8	394.0	473.3	467.8	483.5	559.5	581.3	642.8	624.4
Recycling	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Construction.....	45	611.0	727.8	930.4	1,090.3	1,060.1	1,295.1	1,348.9	1,226.5	1,202.6	1,355.6	1,364.2	1,060.4	1,230.9	1,215.0
Total services.....	50–99	830.7	1,012.3	1,196.7	1,315.0	1,071.6	1,062.8	1,111.7	1,249.3	1,661.4	2,578.9	2,895.6	2,060.1	1,800.1	1,479.1
Hotels and restaurants	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Communications.....	64	790.3	975.4	1,148.3	1,234.9	947.5	963.9	1,020.7	1,178.3	1,566.8	1,440.5	1,755.7	NA	NA	NA
Computer and related activities.....	72	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,069.7	1,051.3	1,973.0	1,695.3	1,350.8
R&D	73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ISIC International Standard Industrial Classification; NA not available; NEC not elsewhere classified; PPP purchasing power parity

NOTES: Wood, paper, printing, and publishing (ISIC, R-3: 20...22) includes furniture (ISIC, R-3: 361). Pulp, paper, and paper products (ISIC, R-3: 21) includes publishing, printing, and reproduction of recorded media (ISIC, R-3: 22). Industry-level data may not add to totals because of rounding and incomplete data.

SOURCE: Organisation for Economic Co-operation and Development, EAS, ANBERD database, July 2002.

Science & Engineering Indicators – 2004

Appendix table 6-9

European Union industrial R&D performance: 1992–99

(Millions of PPP dollars)

Industry	ISIC code	1992	1993	1994	1995	1996	1997	1998	1999
Total business enterprise	na	74,702.0	74,093.9	75,202.1	79,703.0	82,432.8	88,338.4	92,432.0	101,680.5
Total manufacturing	15–37	65,584.8	64,892.3	66,117.1	69,629.0	71,629.0	75,840.9	78,878.1	85,735.8
Food products and beverages	15	NA	NA	NA	NA	NA	NA	NA	NA
Tobacco products	16	NA	NA	NA	NA	NA	NA	NA	NA
Textiles	17	NA	NA	NA	NA	NA	NA	NA	NA
Wearing apparel and fur	18	NA	NA	NA	NA	NA	NA	NA	NA
Leather, leather products, and footwear	19	NA	NA	NA	NA	NA	NA	NA	NA
Wood and cork (except furniture)	20	NA	NA	NA	NA	NA	NA	NA	NA
Paper and paper products	21	NA	NA	NA	NA	NA	NA	NA	NA
Publishing, printing, and reproduction of recorded media	22	NA	NA	NA	NA	NA	NA	NA	NA
Coke, refined petroleum products, and nuclear fuel	23	977.5	933.7	806.1	862.7	859.4	889.1	901.1	852.4
Chemicals and chemical products	24	14,697.7	14,813.1	15,207.7	16,025.0	16,663.4	18,317.5	19,144.9	20,235.1
Chemicals excluding pharmaceuticals	24–2423	NA	NA	NA	NA	NA	NA	NA	NA
Pharmaceuticals	2423	NA	NA	NA	NA	NA	NA	NA	NA
Rubber and plastics products	25	1,035.2	1,102.8	1,142.0	1,212.8	1,382.6	1,500.0	1,485.7	1,774.2
Other nonmetallic mineral products	26	666.8	664.8	694.8	729.7	775.6	771.1	799.9	899.5
Basic metals	27	1,036.0	989.4	984.2	1,055.7	1,026.2	1,051.9	1,040.3	1,067.4
Fabricated metal products (except machinery and equipment)	28	894.7	949.4	971.1	1,069.2	1,121.7	1,079.8	1,097.0	1,146.7
Machinery and equipment NEC	29	5,908.5	5,876.0	6,285.0	6,450.9	6,534.7	7,341.3	7,510.7	7,690.2
Office, accounting, and computing machinery	30	2,763.7	2,592.0	2,324.7	2,374.5	2,194.1	1,854.2	1,808.7	1,782.4
Electrical machinery and apparatus NEC	31	4,205.6	4,258.6	4,149.0	4,175.6	3,573.3	2,954.6	3,083.2	3,162.5
Radio, television, and communication equipment	32	8,034.8	8,229.0	8,826.0	9,525.8	10,515.4	11,561.4	12,408.9	13,746.6
Instruments, watches, and clocks	33	4,379.4	4,276.9	4,287.4	4,586.6	4,377.3	4,671.6	4,270.5	4,687.1
Motor vehicles	34	10,335.1	10,119.6	10,192.9	10,989.7	11,740.1	12,868.6	13,934.9	16,404.5
Other transport equipment	35	8,025.3	7,344.9	7,362.3	7,562.1	7,795.3	7,860.2	8,081.7	8,769.4
Building and repairing of ships and boats	351	NA	NA	NA	NA	NA	NA	NA	NA
Aircraft and spacecraft	353	7,370.2	6,697.8	6,662.6	6,822.8	6,901.8	6,876.6	7,109.4	7,722.4
Railroad and other transport equipment NEC	352,359	NA	NA	NA	NA	NA	NA	NA	NA
Furniture, manufacturing NEC	36	364.8	399.2	424.9	457.8	446.5	471.0	550.5	537.0
Total services	50–99	6,224.1	6,630.6	6,850.4	7,492.3	8,278.4	9,903.6	10,868.2	13,192.3
Computer and related activities	72	NA	NA	NA	2,136.6	NA	2,969.2	NA	3,809.3
R&D	73	NA	NA	NA	NA	NA	NA	NA	NA
Other business activities	74	NA	NA	NA	1,670.1	NA	1,891.1	NA	2,282.0

ISIC International Standard Industrial Classification; NA not available; NEC not elsewhere classified; PPP purchasing power parity; na not applicable

NOTES: Wood, paper, printing, and publishing (ISIC, R-3: 20...22) includes furniture (ISIC, R-3: 361). Pulp, paper, and paper products (ISIC, R-3: 21) includes publishing, printing, and reproduction of recorded media (ISIC, R-3: 22). Industry-level data may not add to totals because of rounding and incomplete data.

SOURCE: Organisation for Economic Co-operation and Development, EAS, ANBERD database, July 2002.

Appendix table 6-10

U.S. patents granted, by residence of inventor/type of ownership: Pre-1988 and 1988–2001

Country/economy	Total	Pre-1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All.....	3,247,452	1,642,070	77,924	95,537	90,365	96,512	97,444	98,342	101,676	101,419	109,645	111,983	147,518	153,485	157,495	166,037
U.S. origin.....	1,957,663	1,091,442	40,497	50,185	47,391	51,178	52,253	53,231	56,066	55,739	61,104	61,707	80,289	83,905	85,070	87,606
Foreign origin.....	1,289,789	550,628	37,427	45,352	42,974	45,334	45,191	45,111	45,610	45,680	48,541	50,276	67,229	69,580	72,425	78,431
Japan.....	485,959	148,022	16,158	20,168	19,525	21,025	21,925	22,293	22,384	21,764	23,053	23,179	30,840	31,104	31,296	33,223
Germany.....	242,588	130,307	7,352	8,351	7,614	7,680	7,309	6,893	6,731	6,600	6,818	7,008	9,095	9,337	10,234	11,259
Taiwan.....	30,017	1,293	457	591	732	906	1,001	1,189	1,443	1,620	1,897	2,057	3,100	3,693	4,667	5,371
France.....	93,259	48,924	2,661	3,140	2,866	3,030	3,029	2,909	2,779	2,821	2,788	2,958	3,674	3,820	3,819	4,041
United Kingdom.....	105,645	65,151	2,579	3,095	2,789	2,800	2,425	2,295	2,234	2,478	2,453	2,678	3,464	3,572	3,667	3,965
Canada.....	60,896	27,696	1,489	1,959	1,859	2,037	1,964	1,944	2,008	2,104	2,232	2,379	2,974	3,226	3,419	3,606
South Korea.....	21,707	343	97	159	225	405	538	779	943	1,161	1,493	1,891	3,259	3,562	3,314	3,538
Sweden.....	31,604	18,067	777	837	768	716	626	636	706	806	854	867	1,225	1,401	1,577	1,741
Italy.....	35,855	17,227	1,076	1,297	1,259	1,209	1,271	1,285	1,215	1,078	1,200	1,239	1,584	1,492	1,714	1,709
Switzerland.....	46,056	28,778	1,245	1,363	1,284	1,335	1,197	1,127	1,169	1,056	1,112	1,090	1,279	1,279	1,322	1,420
Netherlands.....	29,262	15,486	806	1,061	960	992	855	800	852	799	797	808	1,226	1,247	1,241	1,332
Israel.....	9,131	2,314	238	325	299	304	335	314	350	384	484	534	754	743	783	970
Australia.....	12,965	5,485	416	501	432	463	409	378	467	459	471	478	720	707	704	875
Finland.....	8,334	2,423	232	230	304	331	361	293	312	358	444	452	595	649	618	732
Belgium.....	12,384	5,906	302	359	313	324	325	350	352	397	488	515	693	648	694	718
Austria.....	11,354	5,856	337	402	393	359	371	312	289	337	362	376	387	479	505	589
Denmark.....	7,394	3,490	151	221	158	210	193	197	207	199	241	333	392	487	436	479
Singapore.....	1,261	76	6	18	12	15	32	38	51	53	88	94	120	144	218	296
Spain.....	4,140	1,677	126	131	130	153	133	158	141	148	157	177	248	222	270	269
Norway.....	4,106	1,939	121	126	112	111	108	117	126	130	139	142	198	224	248	265
Hong Kong.....	1,745	391	41	48	52	50	60	60	57	86	88	81	160	155	179	237
Russian Federation.....	1,153	NA	NA	NA	NA	NA	NA	3	38	98	116	111	189	181	183	234
China.....	1,125	141	47	52	47	50	41	53	48	62	46	62	72	90	119	195
India.....	1,079	301	14	14	23	22	24	30	27	37	35	47	85	112	131	177
Ireland.....	1,446	435	43	65	54	56	55	53	50	50	78	73	74	94	123	143
New Zealand.....	1,702	737	55	58	51	41	44	39	37	44	52	85	114	114	107	124
South Africa.....	3,282	1,744	103	134	114	105	97	93	101	123	111	101	115	110	111	120
Brazil.....	1,373	487	29	36	41	62	40	57	60	63	63	62	74	91	98	110
Mexico.....	1,988	1,302	44	39	32	29	39	45	44	40	39	45	57	76	76	81
Hungary.....	2,495	1,596	94	129	93	85	88	61	46	50	43	25	50	39	36	60
Argentina.....	955	522	16	20	17	16	20	24	32	31	30	35	43	44	54	51
Luxembourg.....	722	365	29	29	17	27	26	28	22	24	18	22	20	22	40	33
Venezuela.....	583	221	20	23	20	25	22	31	23	29	25	25	27	39	27	26
Poland.....	715	550	8	14	17	8	5	8	8	8	15	11	15	19	13	16
Czechoslovakia.....	2,137	1,893	33	34	39	27	17	13	19	15	8	9	9	5	9	7
Soviet Union.....	6,993	6,158	96	161	174	178	66	65	53	12	16	4	6	3	1	0
Others (128).....	6,379	3,325	129	162	149	148	140	141	186	156	187	223	292	350	372	419
Ownership																
U.S. corporations.....	1,525,517	830,372	31,437	38,664	36,094	39,133	40,308	41,825	44,036	44,035	48,741	50,220	66,052	69,390	70,884	74,326
U.S. Government.....	50,208	36,052	733	880	983	1,183	1,161	1,167	1,258	1,028	923	944	1,027	983	929	957
U.S. individuals.....	456,650	265,947	10,122	13,028	12,542	13,207	12,751	12,281	12,805	12,885	13,729	12,914	16,407	16,698	16,129	15,205
Foreign corporations.....	1,045,592	415,526	30,960	37,506	35,548	37,593	38,239	38,401	38,788	38,688	41,477	42,907	57,667	60,168	63,182	68,942
Foreign government.....	10,784	6,411	453	441	423	472	463	434	296	245	259	273	256	162	104	92
Foreign individuals.....	158,701	87,762	4,219	5,018	4,775	4,924	4,522	4,234	4,493	4,538	4,516	4,725	6,109	6,084	6,267	6,515

NA not available

SOURCE: U.S. Patent and Trademark Office, Information Products Division, Technology Assessment and Forecast Branch, special tabulations (Washington, DC, December 2002).

U.S. patent applications, by residence of inventor: 1989–2001

Country/economy	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All.....	152,750	164,558	164,306	173,075	174,743	189,857	212,377	195,187	215,257	243,062	270,187	295,926	326,511
U.S. origin.....	82,370	90,643	87,955	92,425	99,955	107,233	123,958	106,892	120,445	135,483	149,825	164,795	177,511
Foreign origin.....	70,380	73,915	76,351	80,650	74,788	82,624	88,419	88,295	94,812	107,579	120,362	131,131	148,997
Japan.....	31,791	34,113	36,846	38,633	34,816	37,768	39,872	39,510	41,767	45,260	47,821	52,891	61,238
Germany.....	11,437	11,292	10,874	11,652	10,500	11,324	11,853	11,550	12,333	13,885	16,978	17,715	19,900
Taiwan.....	1,507	2,035	2,252	2,667	2,874	3,560	4,054	4,766	5,492	7,412	9,411	9,046	11,086
United Kingdom.....	5,066	4,959	4,557	4,587	4,414	4,856	5,202	4,791	5,147	6,110	6,948	7,523	8,362
Canada.....	3,425	3,511	3,641	3,761	3,910	4,255	4,745	4,443	4,694	5,689	6,149	6,809	7,221
France.....	4,268	4,771	4,723	4,828	4,320	4,528	5,001	4,486	4,759	5,249	6,216	6,623	6,852
South Korea.....	607	775	1,321	1,471	1,624	2,354	2,820	4,248	4,920	5,452	5,033	5,705	6,719
Italy.....	1,964	2,093	2,123	2,288	1,906	1,998	2,128	2,062	2,119	2,313	2,577	2,704	2,967
Sweden.....	1,114	1,057	1,086	1,072	1,157	1,405	1,500	1,481	1,980	2,359	2,570	2,825	2,827
Netherlands.....	1,570	1,588	1,397	1,547	1,472	1,455	1,570	1,559	1,726	1,816	2,058	2,289	2,712
Israel.....	624	608	633	780	803	1,040	1,072	1,042	1,198	1,442	2,009	2,509	2,710
Switzerland.....	2,019	1,931	1,902	1,922	1,759	1,852	1,917	1,609	1,637	1,875	2,144	2,233	2,337
Australia.....	800	811	783	863	781	921	1,007	1,057	1,006	1,420	1,462	1,800	1,995
Finland.....	513	595	592	576	568	707	745	836	891	970	1,376	1,530	1,840
Belgium.....	572	592	614	692	685	862	1,001	930	894	1,059	1,204	1,245	1,286
Denmark.....	284	370	358	378	376	445	618	496	634	748	863	859	1,113
Austria.....	511	560	516	566	526	599	619	543	552	710	823	881	961
Singapore.....	37	36	63	89	104	134	144	176	213	336	460	632	786
India.....	50	58	51	64	54	70	91	115	137	180	271	438	643
Hong Kong.....	108	86	132	150	155	219	163	222	207	274	403	473	626
China.....	112	111	126	129	135	100	144	142	117	181	257	469	626
Spain.....	302	289	258	313	269	315	357	359	370	409	464	549	601
Norway.....	141	164	169	212	190	203	243	227	303	337	415	447	475
Russian Federation.....	NA	NA	NA	183	153	206	221	254	249	273	388	382	433
Ireland.....	99	130	116	103	104	149	131	114	138	228	252	362	366
New Zealand.....	121	105	91	107	85	130	137	174	174	187	240	279	318
South Africa.....	215	185	186	207	246	238	187	189	174	211	179	209	231
Brazil.....	111	88	124	112	105	156	115	145	134	165	186	220	219
Mexico.....	77	76	106	105	82	105	99	97	110	141	147	190	196
Argentina.....	32	56	59	59	56	75	65	78	77	119	96	137	137
Malaysia.....	14	11	22	16	20	37	30	30	61	41	76	104	116
Hungary.....	174	138	103	76	69	76	70	59	40	73	120	107	103
Czech Republic.....	NA	NA	NA	NA	1	15	14	17	30	34	30	52	77
Thailand.....	3	8	4	11	15	19	21	20	21	26	41	92	70
Luxembourg.....	35	32	36	39	35	39	20	31	32	36	59	57	61
Venezuela.....	26	48	43	47	38	43	32	38	40	35	42	45	53
Iceland.....	3	3	10	16	3	6	6	13	8	25	31	30	51
Philippines.....	13	9	10	10	9	7	12	9	15	13	20	32	51
Greece.....	33	27	20	28	19	27	29	23	30	45	50	44	49
Poland.....	24	13	21	16	27	20	19	22	19	19	31	33	39
Ukraine.....	NA	NA	NA	4	16	14	17	18	24	28	22	40	32
Liechtenstein.....	15	13	14	19	13	15	13	17	19	24	26	28	29

Appendix table 6-11

(Page 2 of 2)

U.S. patent applications, by residence of inventor: 1989–2001

Country/economy	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Colombia.....	5	10	5	13	3	18	19	10	6	12	20	21	29
Turkey.....	3	6	3	2	3	5	6	7	10	16	29	28	28
Portugal.....	9	6	3	11	9	14	10	16	12	17	28	17	28
Saudi Arabia.....	12	8	12	11	17	23	24	19	17	26	11	28	26
Chile.....	11	13	12	12	11	11	10	23	17	17	16	24	23
Croatia.....	NA	NA	NA	NA	6	9	15	16	20	20	12	21	21
Monaco.....	3	4	3	8	6	3	6	12	10	13	21	26	20
Slovenia.....	NA	NA	NA	8	19	11	13	19	24	29	21	27	20
Egypt.....	4	3	4	10	4	6	2	2	10	11	16	20	16
Bahamas.....	2	7	2	6	11	8	15	9	14	20	15	18	16
Bulgaria.....	30	31	11	7	3	4	6	5	4	3	11	18	13
Belarus.....	NA	NA	NA	4	8	5	7	9	3	5	10	7	10
Indonesia.....	3	4	11	11	7	5	4	11	3	9	12	9	5
Czechoslovakia.....	71	39	32	41	26	13	22	13	10	19	16	0	0
Other foreign.....	410	437	271	108	161	142	156	126	161	153	176	229	228

NA not available

SOURCE: U.S. Patent and Trademark Office, Information Products Division, Technology Assessment and Forecast Branch, special tabulations (Washington, DC, February 2003).

Science & Engineering Indicators – 2004

Appendix table 6-12

Patent classes most emphasized (top 50) by United Kingdom inventors patenting in United States: 1991 and 2001

Title (partial)	Class	Patents granted to investors from:					
		All countries		United Kingdom		Active 5 index	
		1991	2001	1991	2001	1991	2001
All classes	TOT	76,726	143,268	2,519	3,832	1.000	1.000
Electrical audio signal processing systems and devices	381	151	229	3	25	0.624	4.358
Cleaning compositions for solid surfaces, auxiliary compositions therefor, or processes of preparing the compositions	510	245	562	25	46	3.206	3.267
Wells (shafts or deep borings in the earth, e.g., for oil and gas)	166	330	503	20	39	1.904	3.095
Fluid sprinkling, spraying, and diffusing	239	263	349	10	26	1.195	2.974
Compositions: coating or plastic	106	309	386	12	23	1.220	2.379
Drug, bioaffecting and body treating compositions (includes class 514)	424	3,321	6,570	250	385	2.365	2.339
Chemistry: analytical and immunological testing	436	197	368	4	18	0.638	1.953
Aeronautics	244	216	335	19	16	2.764	1.907
Boring or penetrating the earth	175	136	254	10	12	2.310	1.886
Seal for a joint or juncture	277	170	291	12	13	2.218	1.783
Winding, tensioning, or guiding	242	319	352	2	15	0.197	1.701
Organic compounds (includes classes 532–570)	532	2,788	3,160	101	130	1.138	1.642
Registers (e.g., cash registers, calculators, devices for counting movements of devices)	235	208	467	7	19	1.057	1.624
Rotary kinetic fluid motors or pumps	415	117	271	11	11	2.954	1.620
Chemistry: molecular biology and microbiology	435	860	3,650	29	146	1.059	1.597
Multiplex communications	370	339	1,898	9	74	0.834	1.556
Brakes	188	194	424	11	16	1.782	1.506
Receptacles	220	221	296	8	11	1.137	1.483
Electrolysis: processes, compositions used therein, and methods of preparing the compositions	205	243	405	11	15	1.422	1.478
Measuring and testing	073	897	1,364	39	50	1.366	1.463
Optical waveguides	385	603	1,239	40	45	2.084	1.450
Chemistry: natural resins or derivatives; peptides or proteins; lignins or reaction products thereof	530	264	553	6	20	0.714	1.444
Telecommunications	455	251	1,763	5	63	0.626	1.426
Prosthesis (i.e., artificial body members), parts thereof, or aids and accessories therefor	623	167	560	3	20	0.564	1.426
Multicellular living organisms and unmodified parts thereof and related processes	800	23	548	2	19	2.732	1.384
Fluid reaction surfaces (i.e., impellers)	416	88	202	6	7	2.142	1.383
Fluent material handling, with receiver or receiver coating means	141	123	260	3	9	0.766	1.382
Typewriting machines	400	290	232	4	8	0.433	1.377
Electric lamp and discharge devices: systems	315	392	552	16	19	1.282	1.374
Rotary expandable chamber devices	418	140	204	4	7	0.898	1.370
Special receptacle or package	206	341	438	11	15	1.014	1.367
Communications: electrical	340	446	1,041	13	35	0.916	1.342
Power plants	060	430	902	21	30	1.534	1.328
Telephonic communications	379	274	891	3	29	0.344	1.299
Multiple computer or process coordinating (electrical computers and digital processing systems)	709	80	1,395	5	45	1.964	1.288
Optics: measuring and testing	356	538	651	20	21	1.168	1.288
Static structures (e.g., buildings)	052	380	604	20	19	1.654	1.256
Coded data generation or conversion	341	281	609	9	19	1.006	1.245
Machine element or mechanism	074	364	522	12	16	1.036	1.224
Optics: systems (including communication) and elements	359	882	1,925	32	59	1.140	1.223
Dispensing (apparatus and process)	222	376	471	15	14	1.253	1.187
Electricity: magnetically operated switches, magnets, and electromagnets	335	155	203	3	6	0.608	1.180
Pipe joints or couplings	285	191	240	11	7	1.809	1.164
Data processing: measuring, calibrating, or testing	702	205	518	6	15	0.920	1.156
Food or edible material: processes, compositions, and products	426	556	692	14	20	0.791	1.154
Data processing: database and file management, data structures, or document processing	707	95	1,186	4	34	1.323	1.144
Internal-combustion engines	123	1,012	1,546	31	44	0.962	1.136
Surgery (includes class 600)	128	746	1,796	14	51	0.590	1.134
Pumps	417	341	577	14	16	1.290	1.107
Fluid-pressure and analogous brake systems	303	162	291	10	8	1.939	1.097
Chemistry of inorganic compounds	423	502	444	17	12	1.064	1.079

NOTES: Activity index is the percentage of patents in a class that are granted to inventors from one country divided by the percentage of all patents that have inventors from that country in that year. Listing is limited to Patent and Trademark Office classes that have received at least 200 patents from all countries in 2001.

SOURCE: U.S. Patent and Trademark Office, Information Products Division, Technology Assessment and Forecast Branch, special tabulations. (Washington, DC, 2002).

Appendix table 6-13

Patent classes most emphasized (top 50) by French inventors patenting in United States: 1991 and 2001

Title (partial)	Class	Patents granted to inventors from:					
		All countries		France		Active 5 index	
		1991	2001	1991	2001	1991	2001
All classes	TOT	76,726	143,268	2,519	3,832	1.000	1.000
Chemistry of hydrocarbon compounds	585	304	209	9	28	0.902	5.009
Aeronautics	244	216	335	19	39	2.679	4.353
Clutches and power-stop control	192	291	256	12	27	1.256	3.943
Dispensing (apparatus and process)	222	376	471	18	45	1.458	3.572
Fluent material handling, with receiver or receiver coacting means	141	123	260	2	21	0.495	3.020
Joints and connections	403	167	216	8	17	1.459	2.943
Chemistry of inorganic compounds	423	502	444	35	34	2.124	2.863
Catalyst, solid sorbent, or support therefor: product or process of making	502	436	398	25	30	1.746	2.818
Drug, bio-affecting and body treating compositions (includes class 514)	424	3,321	6,570	176	408	1.614	2.322
Rotary shafts, gudgeons, housings, and flexible couplings for rotary shafts	464	62	204	7	12	3.439	2.199
Refrigeration	062	446	848	13	48	0.888	2.116
Electricity: magnetically operated switches, magnets, and electromagnets	335	155	203	7	11	1.376	2.026
Optics: eye examining, vision testing and correcting	351	102	205	4	11	1.194	2.006
Land vehicles	280	488	1,041	44	53	2.746	1.903
Communications: radio wave antennas	343	138	686	7	34	1.545	1.853
Chairs and seats	297	157	326	11	16	2.134	1.835
Liquid purification or separation	210	863	908	33	42	1.165	1.729
Receptacles	220	221	296	8	13	1.103	1.642
Arithmetic processing and calculating (electrical computers)	708	227	280	8	12	1.073	1.602
Pipe joints or couplings	285	191	240	17	10	2.711	1.558
Compositions: coating or plastic	106	309	386	9	16	0.887	1.550
Prosthesis (i.e., artificial body members), parts thereof, or aids and accessories therefor	623	167	560	7	23	1.277	1.536
Fluid sprinkling, spraying, and diffusing	239	263	349	9	14	1.042	1.500
Optical waveguides	385	603	1,239	18	49	0.909	1.479
Electricity: circuit makers and breakers	200	220	253	7	10	0.969	1.478
Organic compounds (includes classes 532–570)	532	2,788	3,160	135	123	1.475	1.455
Metal deforming	072	311	397	8	15	0.784	1.413
Wells (shafts or deep borings in the earth, e.g., for oil and gas)	166	330	503	11	19	1.015	1.412
Electrolysis: processes, compositions used therein, and methods of preparing the compositions	205	243	405	9	15	1.128	1.385
Communications: directive radio wave systems and devices (e.g., radar, radio navigation)	342	252	464	22	17	2.659	1.370
Bearings	384	217	279	7	10	0.983	1.340
Heat exchange	165	297	363	9	13	0.923	1.339
Land vehicles: bodies and tops	296	253	618	1	22	0.120	1.331
Measuring and testing	073	897	1,364	35	48	1.188	1.316
Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing	422	393	541	21	19	1.628	1.313
Metal treatment	148	297	435	12	15	1.231	1.289
Registers (e.g., cash registers, calculators, devices for counting movements of devices)	235	208	467	14	16	2.050	1.281
Special receptacle or package	206	341	438	14	15	1.251	1.280
Electricity: conductors and insulators	174	246	821	6	28	0.743	1.275
Illumination	362	307	623	8	21	0.794	1.260
Power plants	060	430	902	17	30	1.204	1.243
Electric power conversion systems	363	196	453	7	15	1.088	1.238
Data processing: measuring, calibrating, or testing	702	205	518	2	17	0.297	1.227
Chemistry: molecular biology and microbiology	435	860	3,650	22	118	0.779	1.209
Brushing, scrubbing, and general cleaning	015	200	318	6	10	0.914	1.176
Seal for a joint or juncture	277	170	291	6	9	1.075	1.156
Supports (e.g., for holding articles)	248	340	357	14	11	1.254	1.152
Data processing: design and analysis of circuit or semiconductor mask	716	33	390	0	12	0.000	1.150
Brakes	188	194	424	17	13	2.669	1.146
Compositions	252	479	462	11	14	0.699	1.133
Amplifiers	330	227	429	9	13	1.208	1.133

NOTES: Activity index is the percentage of patents in a class that are granted to inventors from one country divided by the percentage of all patents that have inventors from that country in that year. Listing is limited to Patent and Trademark Office classes that have received at least 200 patents from all countries in 2001.

SOURCE: U.S. Patent and Trademark Office, Information Products Division, Technology Assessment and Forecast Branch, special tabulations. (Washington, DC, 2002).

Patents granted in selected countries, by inventor residence: Selected years, 1985–2000

Granting country	Patents Number	Patents to nonresidents	United States	Japan	Germany	France	Percent					Former Soviet Union	Other
							United Kingdom	Italy	Sweden	India			
1985													
Brazil.....	3,934	84.6	37.0	7.3	20.7	9.9	4.0	4.6	2.8	0.0	0.4	13.3	
Canada.....	18,697	92.8	54.8	11.7	8.8	5.6	5.3	1.5	1.8	0.0	0.4	10.0	
France.....	37,530	73.8	27.4	15.8	25.9	0.0	5.9	4.1	2.4	0.0	1.3	17.0	
Germany.....	33,377	60.4	29.2	23.9	0.0	12.4	6.7	2.8	2.8	0.0	1.7	20.5	
India.....	1,814	76.2	33.5	6.4	11.2	8.1	10.1	3.4	1.3	0.0	3.0	23.0	
Italy.....	47,924	79.0	6.1	2.3	8.0	4.2	2.0	0.0	0.4	0.0	0.0	77.0	
Japan.....	50,100	15.5	46.4	0.0	19.6	6.4	5.4	1.5	2.3	0.0	1.4	17.0	
Mexico.....	1,374	93.4	56.3	6.6	7.6	7.0	4.0	2.6	1.5	0.0	0.5	14.0	
South Korea.....	2,268	84.6	30.4	42.3	6.2	5.4	3.5	1.8	1.4	0.0	0.0	9.1	
Soviet Union.....	74,745	2.0	13.7	8.4	16.9	8.2	3.1	3.9	2.7	0.0	0.0	42.9	
United Kingdom.....	34,480	82.3	28.6	20.8	20.9	8.4	0.0	2.9	2.2	0.0	0.6	15.6	
1990													
Brazil.....	3,355	86.5	41.4	6.6	16.1	9.4	7.4	4.4	2.3	0.0	0.7	11.8	
Canada.....	14,187	92.2	52.2	13.7	8.3	6.0	5.4	2.0	1.8	0.0	0.3	10.3	
France.....	35,149	74.6	24.9	18.2	26.9	0.0	6.0	4.2	2.2	0.0	0.6	17.0	
Germany.....	42,860	61.2	27.8	28.4	0.0	10.8	6.5	3.7	2.7	0.0	0.7	19.3	
India.....	1,611	81.0	35.3	9.3	14.6	6.2	7.8	3.1	1.2	0.0	3.4	19.1	
Italy.....	17,794	98.7	23.7	9.4	28.5	12.4	6.8	0.0	2.4	0.0	0.1	16.7	
Japan.....	59,401	15.2	45.5	0.0	21.3	7.7	5.1	2.4	2.4	0.0	1.1	14.4	
Mexico.....	1,752	92.0	63.4	5.4	7.3	5.1	3.2	2.4	0.8	0.1	0.2	12.2	
South Korea.....	7,762	67.1	23.0	66.7	2.5	1.8	0.8	1.1	0.3	0.0	0.0	3.8	
Soviet Union.....	84,658	1.4	12.0	8.1	18.8	7.8	3.6	6.7	3.8	0.0	0.0	39.2	
United Kingdom.....	32,179	86.4	25.6	20.8	22.8	9.1	0.0	3.2	2.0	0.0	0.4	15.9	
1994													
Brazil.....	2,469	83.0	41.3	6.6	12.5	6.9	4.9	6.4	2.7	0.0	0.0	18.7	
Canada.....	11,641	92.7	51.3	18.8	7.6	5.6	4.6	1.5	1.0	0.0	0.0	9.5	
France.....	54,964	75.3	25.0	23.5	25.5	0.0	5.3	3.9	1.6	0.0	0.0	15.2	
Germany.....	57,803	64.1	28.2	32.5	0.0	9.8	5.9	4.0	2.0	0.0	0.0	17.4	
India.....	1,735	74.2	42.9	6.1	12.4	7.1	6.6	2.6	1.6	0.0	0.2	20.4	
Italy.....	37,096	85.5	24.8	13.4	27.6	10.2	5.9	0.0	1.9	0.0	0.1	16.1	
Japan.....	82,400	11.7	50.1	0.0	18.9	6.5	4.1	2.5	1.8	0.0	0.0	16.3	
Mexico.....	4,367	93.4	58.0	4.3	9.7	5.1	4.3	2.4	1.1	0.0	0.0	14.9	
Russian Federation.....	20,581	22.0	4.0	2.1	4.7	1.1	0.8	1.5	0.6	0.0	0.0	85.2	
South Korea.....	11,683	50.6	22.9	62.6	3.9	2.5	1.1	0.8	0.5	0.0	0.0	5.8	
United Kingdom.....	48,772	89.3	24.9	25.7	22.0	8.0	0.0	3.3	1.5	0.0	0.0	14.5	
1996													
Brazil.....	1,487	87.3	37.8	8.2	15.7	7.4	4.2	4.3	2.3	0.0	0.0	20.1	
Canada.....	7,145	90.1	52.2	24.1	6.0	4.1	3.1	1.4	0.9	0.0	0.0	8.1	
France.....	49,245	75.7	27.3	24.0	22.9	0.0	5.1	3.7	1.7	0.0	0.0	15.3	
Germany.....	55,444	64.3	29.7	32.8	0.0	9.1	5.5	3.8	2.0	0.0	0.1	17.0	

Patents granted in selected countries, by inventor residence: Selected years, 1985–2000

Granting country	Patents Number	Patents to nonresidents	United States	Japan	Germany	France	Percent					Former Soviet Union	Other
							United Kingdom	Italy	Sweden	India			
India.....	1,020	64.8	42.4	6.1	15.3	6.4	8.2	1.4	0.5	0.0	0.3	19.7	
Italy.....	37,935	78.2	26.8	14.3	25.2	10.0	5.4	0.0	1.9	0.0	0.0	16.4	
Japan.....	215,100	12.7	51.4	0.0	17.4	6.1	3.6	2.1	1.6	0.0	0.0	17.6	
Mexico.....	3,186	96.4	67.9	3.3	7.0	3.5	2.3	1.7	2.9	0.0	0.0	11.5	
Russian Federation.....	19,678	16.2	8.2	3.5	8.9	3.5	2.4	2.3	1.1	0.0	0.0	70.2	
South Korea.....	16,516	49.6	23.6	57.7	5.1	2.7	1.9	1.0	0.8	0.0	0.1	7.2	
United Kingdom.....	44,335	90.3	27.4	25.5	20.0	7.7	0.0	3.1	1.7	0.0	0.0	14.6	
1998													
Brazil.....	2,825	85.6	39.8	4.8	17.1	6.9	3.8	4.8	3.2	0.0	0.0	19.6	
Canada.....	9,572	90.1	54.5	17.5	6.7	3.7	4.4	1.4	1.2	0.0	0.1	10.4	
China.....	4,735	65.1	25.5	30.1	10.3	4.6	4.3	2.5	1.8	0.1	0.0	20.8	
France.....	46,213	73.9	27.5	21.4	23.3	0.0	5.8	3.7	1.9	0.0	0.1	16.3	
Germany.....	51,685	62.7	30.4	28.6	0.0	9.9	6.2	3.9	2.2	0.0	0.1	18.7	
India.....	1,711	65.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Italy.....	38,988	65.1	27.5	12.7	24.3	10.7	6.4	0.0	2.2	0.0	0.1	16.3	
Japan.....	141,448	11.1	44.8	0.0	17.5	6.9	4.3	2.2	1.6	0.0	0.0	22.7	
Mexico.....	3,219	95.6	66.9	3.3	7.0	3.8	3.7	1.8	2.2	0.0	0.0	11.2	
Russian Federation.....	23,315	17.6	20.8	4.0	14.4	7.2	4.7	3.1	3.7	0.0	0.0	42.1	
South Korea.....	52,890	32.1	25.6	54.2	6.7	2.7	1.8	1.0	0.5	0.0	0.0	7.5	
United Kingdom.....	43,181	88.8	27.7	23.1	19.8	8.1	0.0	3.0	1.7	0.0	0.1	16.4	
1999													
Brazil.....	3,219	86.8	41.1	6.1	13.6	7.2	4.5	4.3	3.1	0.0	0.1	20.1	
Canada.....	13,778	90.2	57.8	16.7	5.7	5.1	3.3	1.2	1.2	0.0	0.1	8.8	
China.....	7,637	59.4	24.8	32.3	10.8	4.6	3.8	2.1	2.6	0.0	0.2	18.8	
France.....	44,287	74.0	27.7	20.5	23.8	0.0	5.6	3.6	1.9	0.0	0.0	16.8	
Germany.....	49,548	62.0	31.0	27.5	0.0	9.9	6.1	3.8	2.3	0.0	0.1	19.2	
India.....	2,160	70.7	36.6	6.5	17.6	4.6	5.1	1.9	1.6	0.0	0.7	25.5	
Italy.....	32,476	80.0	26.9	12.3	25.0	10.5	5.8	0.0	2.2	0.0	0.1	17.2	
Japan.....	150,059	10.7	43.8	0.0	16.6	6.7	4.0	1.8	1.8	0.0	0.0	25.3	
Mexico.....	3,899	96.9	61.5	3.5	9.3	5.5	3.3	1.6	1.7	0.0	0.0	13.5	
Russian Federation.....	19,508	21.3	25.1	5.0	14.1	7.3	5.0	3.7	3.5	0.0	0.0	36.3	
South Korea.....	62,635	30.8	26.0	52.9	6.3	3.0	2.0	1.0	0.7	0.0	0.1	7.9	
United Kingdom.....	40,683	89.0	28.3	21.8	20.1	8.0	0.0	2.9	1.9	0.0	0.0	17.0	
2000													
Brazil.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Canada.....	12,125	90.8	56.9	16.2	5.9	4.9	3.6	1.1	1.5	0.0	0.1	9.8	
China.....	13,356	51.5	22.5	34.1	11.3	5.9	2.9	1.7	2.1	0.0	0.1	19.3	
France.....	36,404	71.7	28.3	20.2	22.6	0.0	5.3	3.7	2.0	0.0	0.1	17.7	
Germany.....	41,585	59.4	31.5	27.2	0.0	8.8	5.7	3.9	2.4	0.0	0.1	20.3	
India.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Italy.....	24,937	81.0	27.4	12.5	24.3	9.6	5.6	0.0	2.2	0.0	0.1	18.1	

Patents granted in selected countries, by inventor residence: Selected years, 1985–2000

Granting country	Patents Number	Patents to nonresidents	United States	Japan	Germany	France	Percent					Former Soviet Union	Other
							United Kingdom	Italy	Sweden	India			
Japan	125,880	10.8	44.1	0.0	15.5	5.8	3.3	1.7	1.7	0.0	0.0	27.8	
Mexico	5,527	98.0	58.7	4.5	9.8	6.2	3.1	2.2	1.4	0.0	0.0	14.1	
Russian Federation	17,592	17.9	25.1	4.4	16.6	8.0	5.1	3.2	4.1	0.2	0.0	33.3	
South Korea	34,956	34.4	26.2	55.7	5.8	2.3	1.5	0.8	1.0	0.0	0.1	6.5	
United Kingdom	33,756	87.6	29.8	21.3	18.4	7.0	0.0	2.9	1.9	0.1	0.1	18.4	

NA not available

NOTE: German data before 1996 are for former West Germany only.

SOURCE: World Intellectual Property Organization, Industrial Property Statistics, selected years, (Geneva, Switzerland) <http://www.wipo.org/ipstats/en>.

Science & Engineering Indicators – 2004

U.S. venture capital disbursements, by industry category: 1980-2002

Industry category	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
	Millions of U.S. dollars										
All industries.....	574.4	1,184.3	1,654.5	3,010.3	3,031.3	2,838.5	3,052.6	3,293.6	3,347.5	3,367.0	2,796.7
Biotechnology.....	44.0	102.1	78.2	128.0	108.6	141.9	228.0	283.8	335.3	305.6	285.0
Communications.....	53.0	154.9	208.2	384.5	407.7	473.2	385.7	359.2	362.9	389.8	346.3
Computer hardware.....	128.3	321.4	552.8	1,084.3	913.1	649.6	601.8	488.8	473.7	375.3	286.9
Consumer related.....	29.5	26.7	83.9	173.7	124.4	142.5	286.0	477.8	431.9	404.6	328.2
Industrial/energy.....	141.5	222.7	204.7	211.0	243.6	199.9	194.0	224.2	181.3	247.1	166.3
Medical/health.....	52.8	75.7	110.7	238.3	299.6	277.7	299.4	405.8	453.8	535.1	442.6
Semiconductors/other electronics.....	60.5	141.3	183.9	298.7	378.8	356.5	391.0	374.8	373.7	257.9	242.4
Software and services.....	17.7	57.1	153.5	356.4	433.5	423.0	415.6	405.9	370.3	402.0	464.2
Other products/services.....	47.2	80.9	76.3	117.7	118.9	172.8	234.2	253.7	330.2	405.4	204.7
Internet specific.....	0.1	1.6	2.3	17.6	3.2	1.5	16.9	19.6	34.3	44.1	30.1
	Percent distribution										
All industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Biotechnology.....	7.7	8.6	4.7	4.3	3.6	5.0	7.5	8.6	10.0	9.1	10.2
Communications.....	9.2	13.1	12.6	12.8	13.5	16.7	12.6	10.9	10.8	11.6	12.4
Computer hardware.....	22.3	27.1	33.4	36.0	30.1	22.9	19.7	14.8	14.2	11.1	10.3
Consumer related.....	5.1	2.3	5.1	5.8	4.1	5.0	9.4	14.5	12.9	12.0	11.7
Industrial/energy.....	24.6	18.8	12.4	7.0	8.0	7.0	6.4	6.8	5.4	7.3	5.9
Medical/health.....	9.2	6.4	6.7	7.9	9.9	9.8	9.8	12.3	13.6	15.9	15.8
Semiconductors/other electronics.....	10.5	11.9	11.1	9.9	12.5	12.6	12.8	11.4	11.2	7.7	8.7
Software and services.....	3.1	4.8	9.3	11.8	14.3	14.9	13.6	12.3	11.1	11.9	16.6
Other products/services.....	8.2	6.8	4.6	3.9	3.9	6.1	7.7	7.7	9.9	12.0	7.3
Internet specific.....	0.0	0.1	0.1	0.6	0.1	0.1	0.6	0.6	1.0	1.3	1.1

U.S. venture capital disbursements, by industry category: 1980–2002

Industry category	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	Millions of U.S. dollars											
All industries.....	2,269.7	3,586.7	3,794.0	4,148.2	7,638.1	11,610.5	15,080.1	21,447.9	54,793.9	106,270.2	40,825.2	21,279.4
Biotechnology.....	268.0	517.5	458.4	539.3	737.6	1,064.4	1,256.9	1,251.7	1,698.0	3,270.6	2,074.4	1,750.3
Communications.....	270.8	507.8	790.4	701.0	1,272.9	2,128.5	2,512.2	3,812.2	7,743.6	16,353.4	7,006.0	3,334.3
Computer hardware.....	222.9	230.3	186.4	193.1	410.1	419.3	450.4	521.7	1,182.9	2,876.7	1,142.0	723.3
Consumer related.....	242.6	260.6	475.8	445.4	950.8	784.6	999.4	1,050.7	1,843.8	1,759.1	739.5	216.5
Industrial/energy.....	114.1	96.1	190.3	196.3	364.7	375.8	561.3	886.0	800.7	1,126.1	707.2	534.7
Medical/health.....	339.4	766.8	640.0	670.7	1,202.4	1,467.2	1,985.4	2,282.9	2,555.1	4,213.4	3,568.4	3,280.3
Semiconductors/other electronics.....	149.9	226.5	185.5	238.0	409.2	524.5	936.4	1,033.3	2,069.8	7,106.2	4,175.6	1,975.3
Software and services.....	436.1	580.4	472.3	721.7	1,103.6	2,246.6	2,939.7	4,007.7	8,396.3	18,313.1	8,449.1	4,237.7
Other products/services.....	199.9	343.6	326.1	279.0	663.1	810.1	988.5	1,545.3	2,821.5	3,512.6	1,479.5	719.6
Internet specific.....	26.0	57.2	68.8	163.7	523.7	1,789.4	2,449.9	5,056.5	25,682.3	47,739.0	11,483.6	4,507.5
	Percent distribution											
All industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Biotechnology.....	11.8	14.4	12.1	13.0	9.7	9.2	8.3	5.8	3.1	3.1	5.1	8.2
Communications.....	11.9	14.2	20.8	16.9	16.7	18.3	16.7	17.8	14.1	15.4	17.2	15.7
Computer hardware.....	9.8	6.4	4.9	4.7	5.4	3.6	3.0	2.4	2.2	2.7	2.8	3.4
Consumer related.....	10.7	7.3	12.5	10.7	12.4	6.8	6.6	4.9	3.4	1.7	1.8	1.0
Industrial/energy.....	5.0	2.7	5.0	4.7	4.8	3.2	3.7	4.1	1.5	1.1	1.7	2.5
Medical/health.....	15.0	21.4	16.9	16.2	15.7	12.6	13.2	10.6	4.7	4.0	8.7	15.4
Semiconductors/other electronics.....	6.6	6.3	4.9	5.7	5.4	4.5	6.2	4.8	3.8	6.7	10.2	9.3
Software and services.....	19.2	16.2	12.4	17.4	14.4	19.3	19.5	18.7	15.3	17.2	20.7	19.9
Other products/services.....	8.8	9.6	8.6	6.7	8.7	7.0	6.6	7.2	5.1	3.3	3.6	3.4
Internet specific.....	1.1	1.6	1.8	4.0	6.9	15.4	16.3	23.6	46.9	44.9	28.1	21.2

SOURCE: Thomson Venture Economics, special tabulations (Newark, N.J., June 2003).

Science & Engineering Indicators – 2004

U.S. venture capital disbursements, by financing stage: 1980-2002

Industry category	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Millions of U.S. dollars											
Total disbursements.....	574.3	1,184.3	1,654.4	3,010.3	3,033.1	2,838.5	3,052.5	3,293.6	3,347.5	3,367.0	2,796.8
Early-stage disbursements	286.6	647.0	660.7	1,290.0	1,358.8	1,033.2	1,364.6	1,345.7	1,403.3	1,309.1	1,100.9
Seed	11.7	54.1	68.3	111.9	132.4	104.5	120.7	116.1	144.9	182.3	124.2
Startup	164.9	301.2	288.2	431.5	539.1	424.3	639.4	516.5	529.1	394.8	278.3
Other.....	110.0	291.7	304.2	746.6	687.3	504.4	604.5	713.1	729.3	732.0	698.4
Later-stage disbursements	287.7	537.3	993.7	1,720.3	1,674.3	1,805.3	1,687.9	1,947.9	1,944.2	2,057.9	1,695.9
Expansion.....	181.8	401.5	634.4	1,252.6	1,203.1	1,241.5	1,212.9	1,460.8	1,543.4	1,626.6	1,332.5
Acquisition	53.6	99.7	239.3	401.2	429.2	542.1	474.5	485.1	395.8	424.7	363.4
Other.....	52.3	36.1	120.0	66.5	42.0	21.7	0.5	2.0	5.0	6.6	0.0
Percent distribution											
Total disbursements.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Early-stage disbursements	49.9	54.6	39.9	42.9	44.8	36.4	44.7	40.9	41.9	38.9	39.4
Seed	2.0	4.6	4.1	3.7	4.4	3.7	4.0	3.5	4.3	5.4	4.4
Startup	28.7	25.4	17.4	14.3	17.8	14.9	20.9	15.7	15.8	11.7	10.0
Other.....	19.2	24.6	18.4	24.8	22.7	17.8	19.8	21.7	21.8	21.7	25.0
Later-stage disbursements	50.1	45.4	60.1	57.1	55.2	63.6	55.3	59.1	58.1	61.1	60.6
Expansion.....	31.7	33.9	38.3	41.6	39.7	43.7	39.7	44.4	46.1	48.3	47.6
Acquisition	9.3	8.4	14.5	13.3	14.2	19.1	15.5	14.7	11.8	12.6	13.0
Other.....	9.1	3.0	7.3	2.2	1.4	0.8	0.0	0.1	0.1	0.2	0.0
Number of disbursements											
Total disbursements.....	451	756	1,081	1,330	1,367	1,274	1,297	1,431	1,320	1,321	1,151
Early-stage disbursements	197	378	453	672	696	604	658	714	664	631	518
Seed	17	45	67	128	116	101	113	112	127	152	87
Startup	93	177	193	216	253	234	245	242	212	185	133
Other.....	87	156	193	328	327	269	300	360	325	294	298
Later-stage disbursements	254	378	628	658	671	670	639	717	656	690	633
Expansion.....	123	242	303	440	471	488	467	521	510	543	460
Acquisition	27	51	100	102	128	157	171	194	145	143	173
Other.....	104	85	225	116	72	25	1	2	1	4	0
Average value of disbursement (millions)											
Total disbursements.....	1.3	1.6	1.5	2.3	2.2	2.2	2.4	2.3	2.5	2.5	2.4
Early-stage disbursements	1.5	1.7	1.5	1.9	2.0	1.7	2.1	1.9	2.1	2.1	2.1
Seed	0.7	1.2	1.0	0.9	1.1	1.0	1.1	1.0	1.1	1.2	1.4
Startup	1.8	1.7	1.5	2.0	2.1	1.8	2.6	2.1	2.5	2.1	2.1
Other.....	1.3	1.9	1.6	2.3	2.1	1.9	2.0	2.0	2.2	2.5	2.3
Later-stage disbursements	1.1	1.4	1.6	2.6	2.5	2.7	2.6	2.7	3.0	3.0	2.7
Expansion.....	1.5	1.7	2.1	2.8	2.6	2.5	2.6	2.8	3.0	3.0	2.9
Acquisition	2.0	2.0	2.4	3.9	3.4	3.5	2.8	2.5	2.7	3.0	2.1
Other.....	0.5	0.4	0.5	0.6	0.6	0.9	0.5	1.0	5.0	1.7	0.0

U.S. venture capital disbursements, by financing stage: 1980–2002

Industry category	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Millions of U.S. dollars												
Total disbursements.....	2,269.8	3,586.8	3,793.9	4,148.2	7,635.2	11,610.5	15,080.2	21,448.0	54,785.2	106,269.8	40,825.2	21,278.8
Early-stage disbursements	804.9	1,139.3	1,347.3	1,618.1	3,114.2	4,358.6	4,837.5	7,306.5	15,444.5	29,285.8	9,934.5	4,416.9
Seed	87.9	166.1	319.9	223.7	360.3	569.9	790.0	908.1	1,222.1	1,927.1	429.9	203.7
Startup	162.5	395.7	382.2	570.4	964.6	953.6	545.3	941.1	2,095.2	1,143.0	377.9	117.0
Other	554.5	577.5	645.2	824.0	1,789.3	2,835.1	3,502.2	5,457.3	12,127.2	26,215.7	9,126.7	4,096.2
Later-stage disbursements	1,464.9	2,447.5	2,446.6	2,530.1	4,521.0	7,251.9	10,242.7	14,141.5	39,340.7	76,984.0	30,890.7	16,861.9
Expansion.....	1,104.9	1,843.7	1,964.6	1,587.7	3,240.7	5,470.5	7,879.2	10,772.5	30,081.2	60,582.3	23,087.6	13,195.6
Acquisition	360.0	603.8	472.6	942.4	1,277.5	1,779.1	2,363.4	3,362.2	9,256.4	16,401.6	7,803.1	3,666.3
Other	0.0	283.2	9.4	239.0	2.8	2.3	0.1	6.8	3.1	0.1	0.0	0.0
Percent distribution												
Total disbursements.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Early-stage disbursements	35.5	31.8	35.5	39.0	40.8	37.5	32.1	34.1	28.2	27.6	24.3	20.8
Seed	3.9	4.6	8.4	5.4	4.7	4.9	5.2	4.2	2.2	1.8	1.1	1.0
Startup	7.2	11.0	10.1	13.8	12.6	8.2	3.6	4.4	3.8	1.1	0.9	0.5
Other	24.4	16.1	17.0	19.9	23.4	24.4	23.2	25.4	22.1	24.7	22.4	19.3
Later-stage disbursements	64.5	68.2	64.5	61.0	59.2	62.5	67.9	65.9	71.8	72.4	75.7	79.2
Expansion.....	48.7	51.4	51.8	38.3	42.4	47.1	52.2	50.2	54.9	57.0	56.6	62.0
Acquisition	15.9	16.8	12.5	22.7	16.7	15.3	15.7	15.7	16.9	15.4	19.1	17.2
Other	0.0	7.9	0.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Number of disbursements												
Total disbursements.....	1,022	1,127	969	1,041	1,656	2,320	2,811	3,697	5,080	7,240	4,105	2,678
Early-stage disbursements	394	450	389	493	834	1,137	1,260	1,557	2,383	3,276	1,407	878
Seed	64	95	111	99	161	265	329	410	430	451	168	109
Startup	95	118	126	178	216	196	138	237	357	187	71	29
Other	235	237	152	216	457	676	793	910	1,596	2,638	1,168	740
Later-stage disbursements	628	677	580	548	822	1,183	1,551	2,140	2,697	3,964	2,698	1,800
Expansion.....	429	492	425	378	624	923	1,246	1,734	2,155	3,253	2,128	1,436
Acquisition	199	184	153	170	197	257	303	366	540	709	570	364
Other	0	1	2	0	1	3	2	40	2	2	0	0
Average value of disbursement (millions)												
Total disbursements.....	2.2	3.2	3.9	4.0	4.6	5.0	5.4	5.8	10.8	14.7	9.9	7.9
Early-stage disbursements	2.0	2.5	3.5	3.3	3.7	3.8	3.8	4.7	6.5	8.9	7.1	5.0
Seed	1.4	1.7	2.9	2.3	2.2	2.2	2.4	2.2	2.8	4.3	2.6	1.9
Startup	1.7	3.4	3.0	3.2	4.5	4.9	4.0	4.0	5.9	6.1	5.3	4.0
Other	2.4	2.4	4.2	3.8	3.9	4.2	4.4	6.0	7.6	9.9	7.8	5.5
Later-stage disbursements	2.3	3.6	4.2	4.6	5.5	6.1	6.6	6.6	14.6	19.4	11.4	9.4
Expansion.....	2.6	3.7	4.6	4.2	5.2	5.9	6.3	6.2	14.0	18.6	10.8	9.2
Acquisition	1.8	3.3	3.1	5.5	6.5	6.9	7.8	9.2	17.1	23.1	13.7	10.1
Other	0.0	283.2	4.7	—	2.8	0.8	0.1	0.2	1.6	0.1	0.0	0.0

NOTES: Early-stage disbursements include seed, startup, and other early-stage disbursements. Later-stage disbursements include expansion, acquisition, leveraged buyout, unknown, and other disbursements (e.g., bridge, special situation, turnaround, secondary purchase, other later-stage, and public market disbursements).

SOURCE: Thomson Venture Economics, special tabulations (Newark, N.J., June 2003).

U.S. venture capital seed-stage disbursements, by industry category: 1980–2002

Industry category	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Millions of U.S. dollars											
All industries.....	11.7	54.1	68.3	111.9	132.4	104.5	120.7	116.1	144.9	182.3	124.2
Biotechnology.....	1.1	2.1	1.6	5.5	10.4	3.5	13.8	15.8	30.9	48.3	7.4
Communications.....	1.5	5.5	13.2	18.2	17.9	3.5	7.2	10.7	15.0	19.2	13.2
Computer hardware.....	6.0	14.1	14.7	13.7	34.8	10.9	2.6	15.6	14.5	14.4	14.0
Consumer related.....	0.0	0.0	1.1	1.5	0.7	3.0	15.6	10.7	5.7	20.2	26.0
Industrial/energy.....	0.5	5.1	5.1	4.1	5.5	16.9	7.2	5.0	26.5	10.2	1.0
Medical/health.....	1.2	10.7	11.5	18.4	14.8	17.6	38.6	23.9	26.3	37.3	28.7
Semiconductors/other electronics.....	0.0	10.3	10.5	14.9	17.4	14.7	14.9	19.8	9.7	2.3	2.7
Software and services.....	1.5	6.2	9.1	29.9	24.3	17.8	12.3	11.5	12.4	20.7	26.2
Other products/services.....	0.0	0.2	1.4	5.5	6.2	15.9	7.8	3.0	3.6	8.5	1.1
Internet specific.....	0.0	0.0	0.0	0.3	0.3	0.7	1.0	0.0	0.3	1.2	3.9
Percent distribution											
All industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Biotechnology.....	9.4	3.8	2.3	4.9	7.9	3.4	11.4	13.6	21.3	26.5	6.0
Communications.....	12.8	10.2	19.3	16.3	13.5	3.4	6.0	9.2	10.4	10.5	10.6
Computer hardware.....	50.7	26.1	21.6	12.2	26.3	10.5	2.1	13.5	10.0	7.9	11.3
Consumer related.....	0.0	0.0	1.6	1.3	0.5	2.9	12.9	9.2	3.9	11.1	20.9
Industrial/energy.....	4.3	9.3	7.5	3.7	4.2	16.1	5.9	4.3	18.3	5.6	0.8
Medical/health.....	10.1	19.8	16.9	16.5	11.2	16.8	31.9	20.6	18.2	20.4	23.1
Semiconductors/other electronics.....	0.0	19.0	15.4	13.3	13.2	14.0	12.3	17.1	6.7	1.3	2.2
Software and services.....	12.8	11.4	13.4	26.8	18.4	17.0	10.2	9.9	8.6	11.4	21.1
Other products/services.....	0.0	0.3	2.1	4.9	4.7	15.2	6.5	2.6	2.5	4.7	0.9
Internet specific.....	0.0	0.0	0.0	0.2	0.2	0.7	0.8	0.0	0.2	0.7	3.1

U.S. venture capital seed-stage disbursements, by industry category: 1980–2002

Industry category	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	Millions of U.S. dollars											
All industries.....	87.9	166.1	319.9	223.7	360.3	569.9	790.0	908.1	1222.1	1927.1	429.9	203.7
Biotechnology.....	6.3	49.9	40.6	25.2	7.4	48.8	50.9	90.5	69.4	40.6	20.6	31.4
Communications.....	4.1	24.1	83.1	20.6	50.3	43.9	115.7	123.4	71.1	395.2	135.0	26.9
Computer hardware.....	11.3	3.8	18.2	2.6	35.8	23.9	15.0	42.2	12.5	48.0	5.2	1.6
Consumer related.....	3.1	9.7	15.8	45.1	57.5	7.8	43.6	14.4	26.2	20.1	3.5	1.5
Industrial/energy.....	0.0	4.0	25.3	45.4	7.9	24.7	17.9	4.2	3.0	9.3	4.6	3.9
Medical/health.....	31.7	36.2	57.7	38.4	60.1	113.7	127.7	159.6	64.4	78.5	42.3	41.2
Semiconductors/other electronics.....	1.5	7.3	10.6	10.6	38.0	34.0	63.2	40.3	48.1	170.2	36.2	29.9
Software and services.....	19.5	23.3	42.8	29.4	65.4	138.0	183.3	176.7	181.6	283.2	66.7	47.4
Other products/services.....	9.3	0.2	18.0	0.6	9.0	7.2	45.5	33.3	34.4	51.1	24.6	5.0
Internet specific.....	1.1	7.8	7.9	5.8	28.9	128.0	127.3	223.6	711.4	830.9	91.3	15.1
	Percent distribution											
All industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Biotechnology.....	7.2	30.0	12.7	11.3	2.1	8.6	6.4	10.0	5.7	2.1	4.8	15.4
Communications.....	4.7	14.5	26.0	9.2	14.0	7.7	14.6	13.6	5.8	20.5	31.4	13.2
Computer hardware.....	12.9	2.3	5.7	1.2	9.9	4.2	1.9	4.6	1.0	2.5	1.2	0.8
Consumer related.....	3.5	5.8	4.9	20.2	16.0	1.4	5.5	1.6	2.1	1.0	0.8	0.7
Industrial/energy.....	0.0	2.4	7.9	20.3	2.2	4.3	2.3	0.5	0.2	0.5	1.1	1.9
Medical/health.....	36.0	21.8	18.0	17.2	16.7	20.0	16.2	17.6	5.3	4.1	9.8	20.2
Semiconductors/other electronics.....	1.8	4.4	3.3	4.7	10.5	6.0	8.0	4.4	3.9	8.8	8.4	14.7
Software and services.....	22.2	14.0	13.4	13.2	18.2	24.2	23.2	19.5	14.9	14.7	15.5	23.3
Other products/services.....	10.6	0.1	5.6	0.3	2.5	1.3	5.8	3.7	2.8	2.6	5.7	2.5
Internet specific.....	1.3	4.7	2.5	2.6	8.0	22.5	16.1	24.6	58.2	43.1	21.2	7.4

SOURCE: Thomson Venture Economics, special tabulations, (Newark, N.J., June 2003).

Science & Engineering Indicators – 2004

Appendix table 6-18

Development of products or processes as result of IT-based innovation in past 12 months, by industry and revenue size: 2001

(Frequency)

Characteristic	Respondents	Yes	No	Nonresponse
All companies	72,400	24,300	47,300	800
IT	9,700	5,500	4,100	S
Manufacturing	3,000	1,000	2,000	S
Communication	1,600	1,000	600	S
Computer-related services	5,100	3,400	1,600	S
Non-IT	62,700	18,800	43,200	S
Manufacturing	39,300	9,700	29,200	S
Transportation and public utilities	8,500	2,700	5,700	S
Finance, insurance and real estate	11,900	5,200	6,500	S
Engineering and AAB services	2,900	1,100	1,800	S
Revenue size (millions of dollars)				
2.5–4.9	26,500	7,600	18,400	S
5–9.9	17,800	5,800	11,900	S
10–24.9	16,100	5,500	10,600	S
25–50	6,000	2,100	3,900	S
More than 50	5,900	3,300	2,600	S
Innovators ^a	34,400	24,300	9,900	S
IT	7,000	5,500	1,400	S
Manufacturing	1,500	1,000	500	S
Communication	1,200	1,000	100	S
Computer-related services	4,300	3,400	800	S
Non-IT	27,400	18,800	8,500	S
Manufacturing	15,300	9,700	5,500	0
Transportation and public utilities	3,700	2,700	900	S
Finance, insurance and real estate	6,900	5,200	1,600	S
Engineering and AAB services	1,500	1,100	400	S
Revenue size (millions of dollars)				
2.5–4.9	11,400	7,600	3,600	S
5–9.9	8,100	5,800	2,300	S
10–24.9	7,700	5,500	2,200	S
25–50	3,500	2,100	1,400	0
More than 50	3,700	3,300	S	S
Noninnovators ^a	37,000	0	36,500	S
IT	2,600	0	2,600	S
Manufacturing	1,500	0	1,400	S
Communication	400	0	400	0
Computer-related services	800	0	800	S
Non-IT	34,300	0	33,900	S
Manufacturing	23,500	0	23,200	S
Transportation and public utilities	4,600	0	4,600	S
Finance, insurance and real estate	4,800	0	4,800	S
Engineering and AAB services	1,400	0	1,400	S
Revenue size (millions of dollars)				
2.5–4.9	14,400	0	14,100	S
5–9.9	9,500	0	9,400	S
10–24.9	8,400	0	8,400	0
25–50	2,500	0	2,500	S
More than 50	2,200	0	2,100	S

AAB accounting, auditing, bookkeeping

IT information technology

S suppressed for reasons of reliability due to receiving fewer than 20 responses

^aBreakdown by innovation excludes 32 cases, representing 1,100 companies, in which innovator status could not be determined. To be classified as an innovator, the company had to indicate that it had developed a product or process in the past 12 months or believed it would develop a product or process in the next 12 months as a result of IT-based innovation. The survey was conducted between July 2001 and April 2002.

NOTES: Responses are to the question: "Did your company develop any products or processes in the past 12 months that were the result of IT-based innovation?" Nonresponse consists of item nonresponse, don't know responses, and item refusal. IT is defined as the hardware and software that support the production or use of computer-based information systems, the infrastructure necessary to access such information systems, or data-processing services. Companies are classified as IT or non-IT based on their 4-digit standard industrial classification (SIC) number. IT manufacturing includes companies with SICs 3571–3579, 3651, 3661–3679, 3823–3826, and 3895. IT communication includes companies with SICs 4812–4822, 4832, 4833, and 4841–4899. IT computer-related services include companies with SICs 7371–7379. Non-IT manufacturing includes companies with SICs 2011–3569, 3581–3648, 3652, 3691–3694, 3699–3822, and 3827–3999. Non-IT transportation and public utilities include companies with SICs 4011–4231, 4412–4789, and 4911–4971. Non-IT finance, insurance, and real estate include companies with SICs 6011–6036, 6081–6153, 6159, and 6162–6799. Non-IT engineering and AAB services include companies with SICs 8711 and 8721.

SOURCE: National Science Foundation, Division of Science Resource Statistics, Information Technology Information Survey, 2001.

Appendix table 6-19

Expectation of developing products or processes as result of IT-based innovation in next 12 months, by industry, revenue size, and innovator: 2001

(Frequency)

Characteristic	Respondents	Definitely yes	Probably yes	Probably not	Definitely not	Nonresponse	Not applicable
All companies	72,400	2,700	7,400	18,900	18,100	1,100	24,300
IT	9,700	300	1,200	1,600	1,000	S	5,500
Manufacturing	3,000	S	400	900	600	S	1,000
Communication	1,600	S	100	200	200	S	1,000
Computer related services	5,100	S	700	500	S	0	3,400
Non-IT	62,700	2,300	6,300	17,300	17,000	1,000	18,800
Manufacturing	39,300	S	4,000	12,600	10,900	S	9,700
Transportation and public utilities	8,500	S	800	1,900	2,700	S	2,700
Finance, insurance and real estate	11,900	S	1,100	2,100	2,700	S	5,200
Engineering and AAB services	2,900	S	300	700	700	S	1,100
Revenue size (millions of dollars)							
2.5–4.9	26,500	900	2,800	7,100	7,400	S	7,600
5–9.9	17,800	S	1,800	5,100	4,400	S	5,800
10–24.9	16,100	S	1,500	4,000	4,400	S	5,500
25–50	6,000	S	S	1,600	900	S	2,100
More than 50	5,900	S	S	1,100	S	S	3,300
Innovators ^a	34,400	2,700	7,400	0	0	0	24,300
IT	7,000	300	1,200	0	0	0	5,500
Manufacturing	1,500	S	400	0	0	0	1,000
Communication	1,200	S	100	0	0	0	1,000
Computer related services	4,300	S	700	0	0	0	3,400
Non-IT	27,400	2,300	6,300	0	0	0	18,800
Manufacturing	15,300	S	4,000	0	0	0	9,700
Transportation and public utilities	3,700	S	800	0	0	0	2,700
Finance, insurance and real estate	6,900	S	1,100	0	0	0	5,200
Engineering and AAB services	1,500	S	300	0	0	0	1,100
Revenue size (millions of dollars)							
2.5–4.9	11,400	900	2,800	0	0	0	7,600
5–9.9	8,100	S	1,800	0	0	0	5,800
10–24.9	7,700	S	1,500	0	0	0	5,500
25–50	3,500	S	S	0	0	0	2,100
More than 50	3,700	S	S	0	0	0	3,300
Noninnovators ^a	37,000	0	0	18,900	18,100	0	0
IT	2,600	0	0	1,600	1,000	0	0
Manufacturing	1,500	0	0	900	600	0	0
Communication	400	0	0	200	200	0	0
Computer related services	800	0	0	500	S	0	0
Non-IT	34,300	0	0	17,300	17,000	0	0
Manufacturing	23,500	0	0	12,600	10,900	0	0
Transportation and public utilities	4,600	0	0	1,900	2,700	0	0
Finance, insurance and real estate	4,800	0	0	2,100	2,700	0	0
Engineering and AAB services	1,400	0	0	700	700	0	0
Revenue size (millions of dollars)							
2.5–4.9	14,400	0	0	7,100	7,400	0	0
5–9.9	9,500	0	0	5,100	4,400	0	0
10–24.9	8,400	0	0	4,000	4,400	0	0
25–50	2,500	0	0	1,600	900	0	0
More than 50	2,200	0	0	1,100	S	0	0

AAB accounting, auditing, bookkeeping

IT information technology

S suppressed for reasons of reliability due to receiving fewer than 20 responses

^aBreakdown by innovation excludes 32 cases, representing 1,100 companies, in which innovator status could not be determined. To be classified as an innovator, the company had to indicate that it had developed a product or process in the past 12 months or believed it would develop a product or process in the next 12 months as a result of IT-based innovation. The survey was conducted between July 2001 and April 2002.

NOTES: Responses are to the question: "Did your company develop any products or processes in the past 12 months that were the result of IT-based innovation?" Nonresponse consists of item non-response, don't know responses, and item refusal. IT is defined as the hardware and software that support the production or use of computer-based information systems, the infrastructure necessary to access such information systems, or data-processing services. Companies are classified as IT or non-IT based on their 4-digit standard industrial classification (SIC) number. IT manufacturing includes companies with SICs 3571–3579, 3651, 3661–3679, 3823–3826, and 3895. IT communication includes companies with SICs 4812–4822, 4832, 4833, and 4841–4899. IT computer-related services include companies with SICs 7371–7379. Non-IT manufacturing includes companies with SICs 2011–3569, 3581–3648, 3652, 3691–3694, 3699–3822, and 3827–3999. Non-IT transportation and public utilities include companies with SICs 4011–4231, 4412–4789, and 4911–4971. Non-IT finance, insurance, and real estate include companies with SICs 6011–6036, 6081–6153, 6159, and 6162–6799. Non-IT engineering and AAB services include companies with SICs 8711 and 8721.

SOURCE: National Science Foundation, Division of Science Resource Statistics, Information Technology Information Survey, 2001.

Appendix table 6-20

Product or process developed as result of IT-based innovation that contributed most to revenue in past 12 months, by industry and revenue size: 2001

(Frequency)

Characteristic of innovators ^a	Respondents	Product	Process	Nonresponse	Not applicable
All industries.....	34,400	9,200	14,600	S	10,100
IT.....	7,000	3,200	2,200	S	1,500
Manufacturing.....	1,500	500	500	S	500
Communication.....	1,200	600	400	S	100
Computer-related services.....	4,300	2,100	1,300	S	800
Non-IT.....	27,400	6,000	12,400	S	8,600
Manufacturing.....	15,300	3,300	6,300	S	5,500
Transportation and public utilities.....	3,700	800	1,900	S	1,000
Finance, insurance, and real estate.....	6,900	1,500	3,500	S	1,700
Engineering and AAB services.....	1,500	400	700	S	400
Revenue size (millions of dollars)					
2.5–4.9.....	11,400	3,500	4,000	S	3,800
5–9.9.....	8,100	2,300	3,400	S	2,400
10–24.9.....	7,700	1,600	3,700	S	2,200
25–50.....	3,500	900	1,200	S	1,400
More than 50.....	3,700	900	2,300	S	400

AAB accounting, auditing, bookkeeping

IT information technology

S suppressed for reasons of reliability due to receiving fewer than 20 responses

^aBreakdown by innovation excludes 32 cases, representing 1,100 companies, in which innovator status could not be determined. To be classified as an innovator, the company had to indicate that it had developed a product or process in the past 12 months or believed it would develop a product or process in the next 12 months as a result of IT-based innovation. The survey was conducted between July 2001 and April 2002.

NOTES: Responses are to the question: "Please think of the single IT-based product or process that has contributed most to your company's revenue in the past 12 months. Is this contribution a product or a process?" This question was only asked of innovators. Nonresponse consists of item nonresponse, don't know responses, and item refusal. Not applicable represents those respondents who were not asked the question. IT is defined as the hardware and software that support the production or use of computer-based information systems, the infrastructure necessary to access such information systems, or data processing services. Companies are classified as IT or non-IT based on their 4-digit standard industrial classification (SIC) number. IT manufacturing includes companies with SICs 3571–3579, 3651, 3661–3679, 3823–3826 and 3895. IT communication includes companies with SICs 4812–4822, 4832, 4833, and 4841–4899. IT computer-related services includes companies with SICs 7371–7379. Non-IT manufacturing include companies with SICs 2011–3569, 3581–3648, 3652, 3691–3694, 3699–3822, and 3827–3999. Non-IT transportation and public utilities include companies with SICs 4011–4231, 4412–4789, and 4911–4971. Non-IT finance, insurance, and real estate include companies with SICs 6011–6036, 6081–6153, 6159, and 6162–6799. Non-IT engineering and AAB services include companies with SICs 8711 and 8721.

SOURCE: National Science Foundation, Division of Science Resource Statistics, Information Technology Information Survey, 2001.

Appendix table 6-21

Type of development expected as result of IT-based innovation in next 12 months, by industry and revenue size: 2001

(Frequency)

Characteristic of innovators ^a	Respondents	Product	Process	Nonresponse	Not applicable
All industry	34,400	3,300	6,700	S	24,300
IT	7,000	700	800	S	5,500
Manufacturing	1,500	300	200	0	1,000
Communication	1,200	S	S	0	1,000
Computer-related services	4,300	400	500	S	3,400
Non-IT	27,400	2,600	5,900	S	18,800
Manufacturing	15,300	S	3,700	0	9,700
Transportation and public utilities	3,700	S	800	S	2,700
Finance, insurance, and real estate.....	6,900	S	1,000	S	5,200
Engineering and AAB services	1,500	S	300	S	1,100
Revenue size (millions of dollars)					
2.5–4.9	11,400	1,300	2,400	S	7,600
5–9.9	8,100	800	1,600	S	5,800
10–24.9	7,700	S	1,500	S	5,500
25–50	3,500	S	S	0	2,100
More than 50.....	3,700	S	S	0	3,300

AAB accounting, auditing, bookkeeping

IT information technology

S suppressed for reasons of reliability due to receiving fewer than 20 responses

^aBreakdowns by innovation exclude 32 cases, representing 1,100 companies, in which innovator status could not be determined. To be classified as an innovator, the company had to indicate that it had developed a product or process in the past 12 months or believed it would develop a product or process in the next 12 months as a result of IT-based innovation. The survey was conducted during the period July 2001–April 2002.

NOTES: Responses are to the question: "Will the result be primarily products or processes?" This question was only asked of innovators. Nonresponse consists of item nonresponse, don't know responses, and item refusal. Not applicable represents those respondents who were not asked the question. Companies are classified as IT or Non-IT based on their four-digit standard industrial classification (SIC) number. IT manufacturing includes companies with SICs 3571–3579, 3651, 3661–3679, 3823–3826 and 3895. IT communication includes companies with SICs 4812–4822, 4832, 4833, and 4841–4899. IT computer-related services include companies with SICs 7371–7379. Non-IT manufacturing include companies with SICs 2011–3569, 3581–3648, 3652, 3691–3694, 3699–3822, and 3827–3999. Non-IT transportation and public utilities include companies with SICs 4011–4231, 4412–4789, and 4911–4971. Non-IT finance, insurance, and real estate include companies with SICs 6011–6036, 6081–6153, 6159, and 6162–6799. Non-IT engineering and AAB services include companies with SICs 8711 and 8721.

SOURCE: National Science Foundation, Division of Science Resource Statistics, Information Technology Information Survey, 2001.