

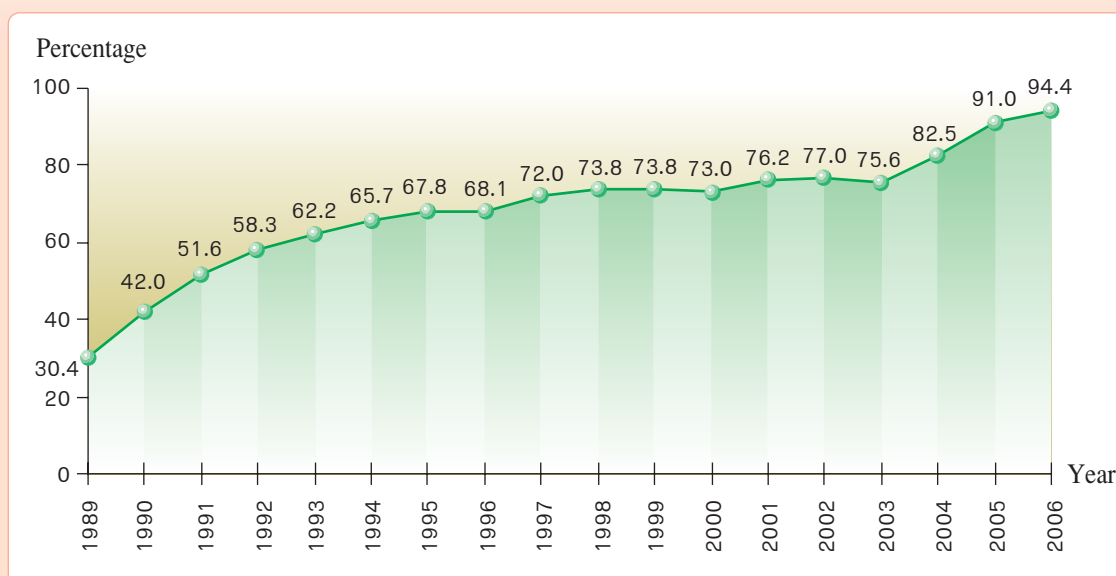
3. Health Technologies

Major health technologies are drugs and medical supplies as well as medical and health technologies for use in the treatment of illnesses.

3.1 Drug and Medical Supplies

The quality of domestically produced drugs has much improved as a result, in part, of the promotion of Good Manufacturing Practices (GMP). In 2003, the MoPH issued a rule requiring that all pharmaceutical manufacturers have a GMP certification. In 2006, 94.4% of the manufacturers were GMP-certified.

Figure 6.56 Percentage of GMP-certified drug manufacturers, 1989-2006



Source: Drug Control Division, Food and Drug Administration, MoPH.

During the economic booming period 1988-1996, with the monopolies of new drugs, the proportion of imported drugs had a rising trend. Even after the economic crisis, since 2002, the import trend had been rising steadily, up to 56.3% in 2005 (Table 6.11 and Figure 6.57).

When considering the values of local production and drug imports, the trends rose steadily, except for a slightly downward trend for production in 2005, while the import values rose and surpassed the production values for the same year, the difference being approximately nine billion baht (Figure 6.58).

In addition to production and dispensing of drugs for domestic consumption, some drugs are exported to other countries, the export values rising from 480.8 million baht in 1989 to 6,958.3 million baht in 2006 (Figure 6.59).



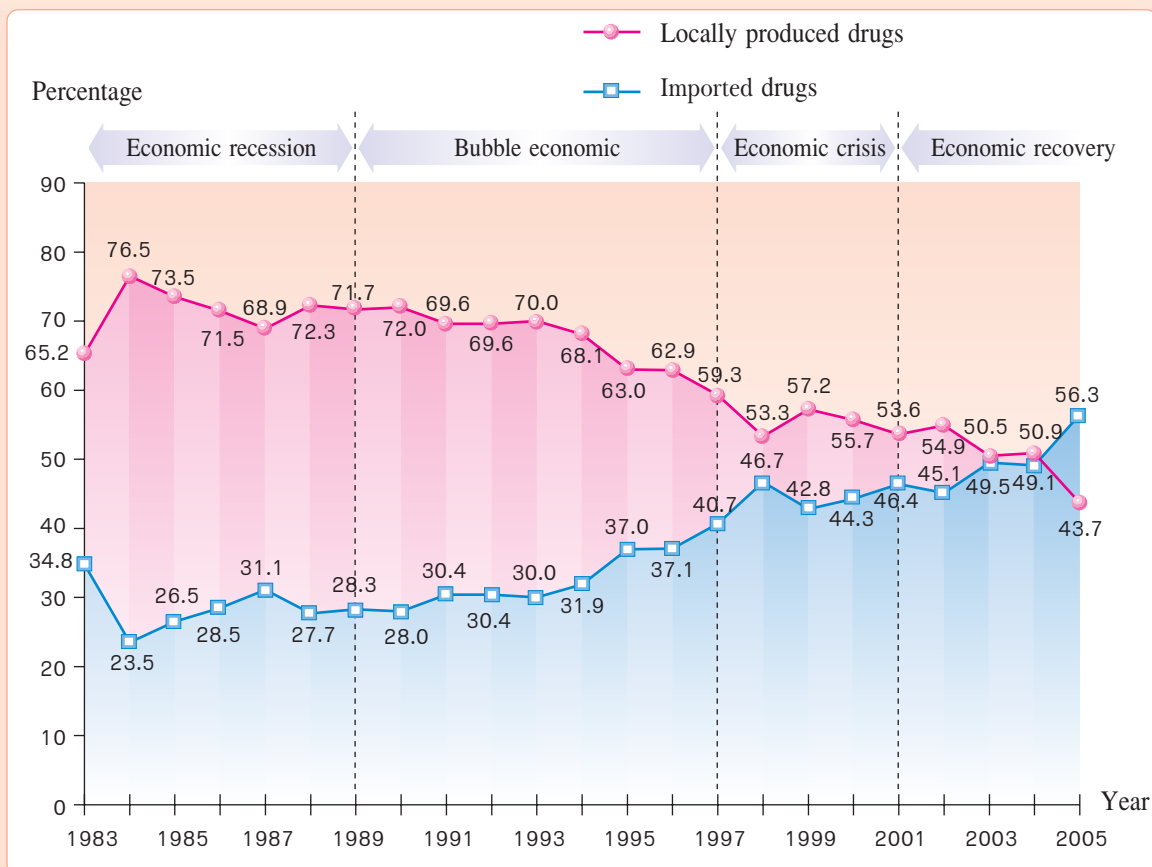
Table 6.11 Values of locally produced and imported drugs (for human use) 1983-2005

Year	Wholesale values as reported (current prices)							Estimates of retail prices Country x 1.8	Estimates consumption values 2005		Change (%)		Total retail prices value as a percentage of health expenditure
	Values	Percent	Values	Percent	Total (million baht)	Values of exports (million baht)	Values of domestic consumption ⁽¹⁾ (million baht)		Wholesale prices	Retail prices	Current prices	Constant prices	
							Estimates values of domestic consumption ⁽²⁾ X 1.675						
1983	3,777.9	65.2	2,012.0	34.8	5,789.9	255.6	5,534.3	9,270.0	16,686.0	20,131.02	36,236.01	-	40.52
1984	5,453.0	76.5	1,673.0	23.5	7,126.0	284.0	6,842.0	11,460.4	20,628.7	24,703.42	44,466.31	+23.6	39.49
1985	6,651.2	73.5	2,393.1	26.5	9,044.3	315.5	8,728.8	14,620.7	26,317.3	30,741.58	55,334.85	+27.6	44.41
1986	4,678.0	71.5	1,864.5	28.5	6,542.5	350.5	6,192.0	10,371.6	18,668.9	21,405.22	38,529.39	-29.1	28.26
1987	5,145.8	68.9	2,325.4	31.1	7,471.2	389.4	7,081.8	11,862.0	21,351.6	23,904.75	43,028.56	+14.4	28.73
1988	6,708.8	72.3	2,571.0	27.7	9,279.8	432.7	8,847.1	14,818.9	26,674.0	28,748.65	51,747.57	+24.9	29.65
1989	8,372.9	71.7	3,307.6	28.3	11,680.5	480.8	11,199.7	18,759.5	33,763.1	34,550.72	62,191.30	+26.6	32.13
1990	8,886.0	72.0	3,449.1	28.0	12,335.1	604.1	11,731.0	19,649.4	35,368.9	34,157.60	61,483.68	+4.8	28.23
1991	9,657.6	69.6	4,216.4	30.4	13,874.0	784.8	13,089.2	21,924.4	39,463.9	36,045.22	64,881.39	+11.6	28.43
1992	10,696.6	69.6	4,682.6	30.4	15,379.2	1,193.5	14,185.7	23,761.0	42,769.8	37,537.81	67,568.06	+8.4	27.08
1993	11,831.0	70.0	5,075.3	30.0	16,906.3	2,855.3	14,051.0	23,535.4	42,363.7	35,970.63	64,747.14	-0.9	23.02
1994	12,969.7	68.1	6,086.6	31.9	19,056.3	1,536.2	17,520.1	29,346.2	52,823.2	42,698.67	76,857.61	+24.7	26.41
1995	15,820.9	63.0	9,276.4	37.0	25,097.3	2,398.5	22,698.8	38,020.5	68,436.9	52,287.16	94,116.88	+29.6	30.08
1996	18,120.4	62.9	10,676.0	37.1	28,796.4	1,784.9	27,011.5	45,244.3	81,439.7	58,777.14	105,798.86	+19.0	31.63
1997	19,608.0	59.3	13,467.1	40.7	33,075.1	2,319.7	30,755.4	51,515.3	92,727.5	63,413.50	114,144.30	+13.9	32.88
1998	16,127.7	53.3	14,146.5	46.7	30,274.2	2,782.3	27,491.9	46,048.9	82,888.1	52,426.60	94,367.88	-10.6	30.02
1999	19,033.9	57.2	14,232.3	42.8	33,266.2	3,014.9	30,251.3	50,670.9	91,207.7	57,508.74	103,515.72	+10.0	32.09
2000	20,995.9	55.7	16,700.4	44.3	37,696.3	3,732.7	33,963.6	56,889.0	102,400.2	63,574.15	114,433.40	+12.3	34.16
2001	23,087.9	53.6	19,967.6	46.4	43,055.5	4,326.9	38,728.6	64,870.4	116,766.7	71,342.74	128,416.89	+14.0	36.35
2002	24,144.6	54.9	19,867.9	45.1	44,012.5	4,115.5	39,897.0	66,827.5	120,289.5	72,998.48	131,397.31	+3.0	36.04
2003	26,586.1	50.5	26,024.9	49.5	52,611.0	4,821.5	47,789.5	80,047.4	144,085.3	85,891.53	154,604.75	+19.8	38.92
2004	31,707.6	50.9	30,545.5	49.1	62,253.1	4,961.6	57,291.5	95,963.3	172,734.0	100,234.49	180,422.08	+19.9	43.97
2005	29,704.8	43.7	38,293.4	56.3	67,998.2	6,196.9	61,801.3	103,517.4	186,330.8	103,517.13	186,330.83	+7.9	42.84
										Avg 18 yrs		12.8	8.5

Source: Drug Control Division, Food and Drug Administration, MoPH.

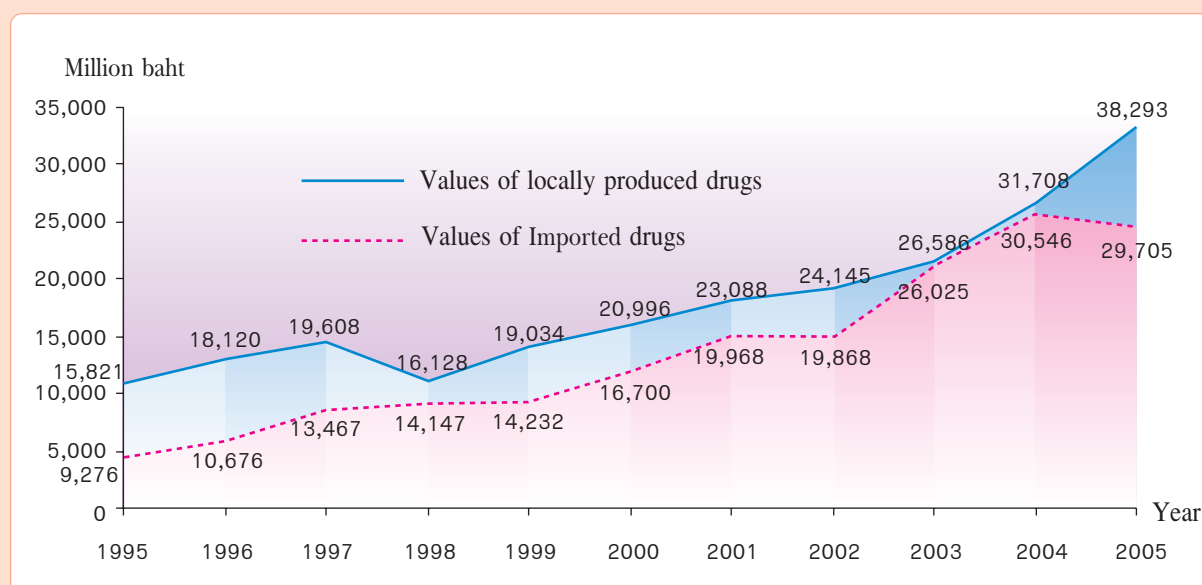
1. The estimates are to be deducted by export values
2. The reported figures are about 67.5% lower than actuality (48% underreported; and the reports do not include drugs from GPO, narcotics and psychoactive drugs)
3. Retail prices are about 1.8 times of wholesale prices.

Figure 6.57 Percentage of locally produced and imported drugs(for human use) 1983-2005



Source: Drug Control Division, Food and Drug Administration, MoPH.

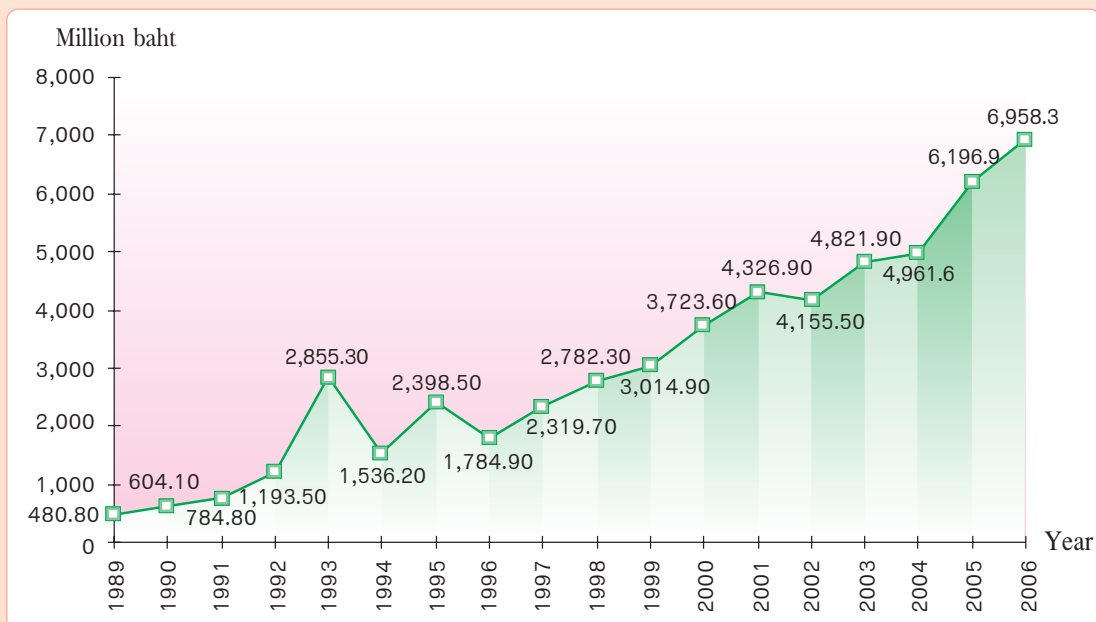
Figure 6.58 Values of locally produced and imported drugs, 1995-2005



Source: Drug Control Division, Food and Drug Administration, MoPH.



Figure 6.59 Values of drugs exported from Thailand (current prices), 1989-2006



Source: Food and Drug Administration, MoPH.

Note: Data for 1989-2006 were derived from the Customs Department, Ministry of Finance.