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THE AREA OF STUDY



**THE COSTS OF MALARIA CONTROL PROGRAMME IN SOUTH-EAST SULAWESI
BY TYPE OF EXPENDITURES (In Thousand Rupiahs)**

Year	CAPITAL COSTS				OPERATIONAL COSTS							TOTAL
	Equip- ments 1)	Vehicles	Buildings	Sub Total	Person- nels 2)	Travels	Insecti- cides	Other Supplies	Trainings	Maintenanc & other op.	Sub Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
1994	1,750.00	NA	0.00	1,750.00	26,525.00	22,590.00	NA	33,775.00	3,150.00	11,264.00	97,304.00	99,054.00
1993	1,375.00	NA	0.00	1,375.00	26,618.00	36,606.00	NA	31,720.00	3,150.00	16,025.00	114,119.00	115,494.00
1992	1,325.00	NA	400.00	1,725.00	21,800.00	43,840.00	NA	34,105.00	3,150.00	21,962.00	124,657.00	126,582.00
1991	1,190.00	NA	5,000.00	6,190.00	42,206.00	44,604.00	NA	29,966.00	14,384.00	19,221.00	150,381.00	156,571.00
1990	240.00	NA	4,500.00	4,740.00	27,573.00	23,525.00	NA	9,406.00	6,564.00	6,798.00	73,866.00	78,606.00
1989	1,210.00	NA	0.00	1,210.00	15,456.00	26,935.00	NA	14,687.00	3,630.00	11,515.00	72,223.00	73,433.00
1988	1,560.00	NA	5,292.00	6,852.00	31,828.00	46,902.00	NA	8,482.00	6,165.00	16,847.00	110,244.00	117,096.00
*) 1987	195.00	NA	3,007.00	3,202.00	7,218.00	8,509.00	NA	4,550.00	? **)	4,500.00	24,777.00	27,979.00
*) 1986	840.00	NA	13,834.75	14,674.75	46,297.75	11,054.00	NA	11,706.50	? **)	4,375.00	73,433.25	88,108.00
*) 1985	740.00	NA	0.00	740.00	49,057.75	16,416.00	NA	13,633.00	? **)	30,903.25	110,010.00	110,750.00
*) 1984	2,312.50	NA	0.00	2,312.50	46,062.00	20,271.00	NA	20,576.00	? **)	31,778.50	118,687.50	121,000.00
*) 1983	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	82,792.00
*) 1982	1,190.00	NA	NA	1,190.00	15,920.00	8,636.00	NA	6,070.00	? **)	8,529.00	39,155.00	40,345.00
*) 1981	225.00	NA	NA	225.00	11,914.00	9,784.00	NA	4,478.00	? **)	10,122.00	36,298.00	36,523.00
*) 1980	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	68,645.00
*) 1979	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	18,637.50
*) 1978	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	13,284.00
1977	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	9,298.00
1976	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	8,451.00
1975	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	7,050.00
1974	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	4,250.00
1973	NA	NA	NA	0.00	NA	NA	NA	NA	NA	NA	0.00	6,133.00
TOTAL	14,152.50	0.00	32,033.75	46,186.25	368,475.50	319,672.00	0.00	223,154.50	40,213.00	193,839.75	1,145,354.75	1,191,541.00

1) Excluding the costs of spraycars, fontans, microscopes and oxygen tubes
2) Excluding salaries

*) Excluding the costs of entomological investigation
**) Including in the costs of maintenance and other operational

**THE COSTS OF MALARIA VECTOR CONTROL MEASURES IN SOUTH-EAST SULAWESI 1)
BY TYPE OF EXPENDITURES (In Thousand Rupiahs)**

Year	CAPITAL COSTS				OPERATIONAL COSTS							TOTAL
	Equip- ments 2)	Vehicles	Buildings	Sub Total	Person- nels 3)	Travels	Insecti- cides	Other Supplies	Trainings	Maintenanc & other op.	Sub Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
1994	1,750.00	NA	0.00	1,750.00	25,525.00	5,150.00	NA	23,175.00	3,150.00	5,025.00	62,025.00	63,775.00
1993	1,375.00	NA	0.00	1,375.00	25,768.00	19,710.00	NA	21,625.00	4,750.00	14,525.00	86,378.00	87,753.00
1992	1,325.00	NA	400.00	1,725.00	20,950.00	21,048.00	NA	21,465.00	5,070.00	21,962.00	90,495.00	92,220.00
1991	1,190.00	NA	5,000.00	6,190.00	41,231.00	28,444.00	NA	19,305.00	11,784.00	19,221.00	117,995.00	124,175.00
1990	240.00	NA	4,500.00	4,740.00	27,138.00	15,089.00	NA	4,740.00	6,488.00	6,798.00	60,233.00	64,973.00
1989	1,210.00	NA	0.00	1,210.00	14,518.00	8,871.00	NA	1,375.00	3,630.00	11,515.00	39,907.00	41,117.00
1988	1,560.00	NA	5,292.00	6,852.00	31,728.00	35,354.00	NA	2,400.00	6,185.00	16,847.00	92,514.00	99,366.00
*) 1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*) 1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*) 1985	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*) 1984	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*) 1983	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*) 1982	300.00	NA	NA	300.00	15,308.00	4,898.00	NA	940.00	? **)	3,839.00	24,789.00	25,089.00
*) 1981	255.00	NA	NA	255.00	11,482.00	3,636.00	NA	1,037.00	? **)	5,432.00	21,587.00	21,842.00
*) 1980	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*) 1979	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*) 1978	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1977	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1976	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1975	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1974	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1973	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL	9,205.00	0.00	15,192.00	24,397.00	213,648.00	139,998.00	0.00	96,062.00	41,037.00	105,164.00	596,907.00	620,304.00

1) Including the cost of entomological investigations

2) Excluding the costs of sprays, fumigants, microscopes and oxygen tubes

3) Excluding salaries

*) Excluding the costs of entomological investigation

***) Including in the costs of maintenance and other operational

**THE COSTS OF MALARIA ENTOMOLOGICAL INVESTIGATION IN SOUTH-EAST SULAWESI
BY TYPE OF EXPENDITURES (In Thousand Rupiahs)**

Year	CAPITAL COSTS				OPERATIONAL COSTS							TOTAL
	Equip- ments	Vehicles	Buildings	Sub Total	Person- nels 1)	Travels	Insecti- cides	Other Supplies	Trainings	Maintenanc & other op.	Sub Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
1994	100.00	0.00	0.00	100.00	900.00	4,650.00	0.00	175.00	0.00	0.00	5,725.00	5,825.00
1993	100.00	0.00	0.00	100.00	900.00	4,470.00	0.00	250.00	0.00	0.00	5,820.00	5,720.00
1992	300.00	0.00	0.00	300.00	480.00	3,288.00	0.00	140.00	0.00	0.00	3,908.00	4,208.00
1991	300.00	0.00	0.00	300.00	480.00	1,520.00	0.00	140.00	0.00	0.00	2,140.00	2,440.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1988	300	0.00	0.00	300.00	1214	12600	0.00	263	0.00	0.00	14,077.00	14,377.00
1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1985	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1984	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1983	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12,208.00
1982	1,250.00	0.00	0.00	1,250.00	2,103.00	8,292.00	0.00	714.00	0.00	0.00	11,109.00	12,359.00
1981	2,650.00	0.00	0.00	2,650.00	1,646.00	10,172.00	0.00	680.00	0.00	0.00	12,478.00	15,128.00
1980	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	5,883.00
1979	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	4,090.00
1978	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	2,362.00
1977	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	831.00
1976	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	608.00
1975	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	919.00
1974	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	678.00
1973	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	335.00
1972	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	334.20
1971	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		110.00
TOTAL	5,000.00	0.00	0.00	5,000.00	7,723.00	44,992.00	0.00	2,342.00	0.00	0.00	55,057.00	68,415.20

1) Excluding salaries

**THE COSTS OF MALARIA CONTROL PROGRAMME IN SOUTH-EAST SULAWESI
BY THE TYPE OF ACTIVITIES (in thousand rupiahs)**

Year	VECTOR CONTROL MEASURES							Entomological Investigation *)	MALARIA TREAT-MEANTS	MALARIA SURVAILANCE	TOTAL
	IRS	IIBN	Larviciding (Bti)	Source Reduction	Biological Control	Environ. Sanitation	Sub Total				
1	2	3	4	5	6	7	8	9	10	11	12
1994	55,887.50	0.00	3,150.00	0.00	1,962.00	0.00	60,999.50	6,225.00	6,940.00	28,339.00	102,503.50
1993	75,763.00	495.00	2,875.00	6,750.00	1,770.00	0.00	87,653.00	5,620.00	3,995.00	23,740.00	121,008.00
1992	78,021.00	250.00	3,000.00	0.00	2,345.00	8,604.00	92,220.00	4,208.00	7,290.00	27,072.00	130,790.00
1991	75,319.00	17,414.00	2,273.00	9,044.00	3,625.00	-	107,675.00	2,440.00	6,189.00	25,957.00	142,261.00
1990	49,289.00	-	1,782.00	10,902.00	0.00	-	61,973.00	0.00	406.50	12,572.00	74,951.50
1989	38,779.00	-	-	0.00	2,338.00	-	41,117.00	0.00	10,184.00	22,132.00	73,433.00
1988	70,501.00	-	-	14,268.00	7,127.00	-	91,896.00	14,377.00	2,950.00	14,780.00	124,003.00
1987	NA	-	-	-	NA	-	NA	NA	NA	NA	NA
1986	NA	-	-	-	-	-	48,078.00	3,750.00	? **)	11,628.00	63,456.00
1985	NA	-	-	-	-	-	84,908.00	8,515.00	? **)	25,842.00	119,265.00
1984	NA	-	-	-	-	-	NA	NA	NA	NA	NA
1983	NA	-	-	-	-	-	NA	12,208.00	NA	NA	12,208.00
1982	NA	-	-	-	-	-	25,083.00	12,583.00	? **)	15,262.00	52,928.00
1981	NA	-	-	-	-	-	24,842.00	15,395.00	? **)	14,711.00	54,948.00
1980	NA	-	-	-	-	-	NA	5,883.00	NA	NA	5,883.00
1979	NA	-	-	-	-	-	NA	4,090.00	NA	NA	4,090.00
1978	NA	-	-	-	-	-	NA	2,362.00	NA	NA	2,362.00
1977	NA	-	-	-	-	-	NA	831.00	NA	NA	831.00
1976	NA	-	-	-	-	-	NA	608.00	NA	NA	608.00
1975	NA	-	-	-	-	-	NA	919.00	NA	NA	919.00
1974	NA	-	-	-	-	-	NA	678.00	NA	NA	678.00
1973	NA	-	-	-	-	-	NA	335.00	NA	NA	335.00
1972	-	-	-	-	-	-	NA	304.20	NA	NA	304.20
1971	-	-	-	-	-	-	NA	110.00	NA	NA	110.00
TOTAL	443,559.50	18,159.00	13,080.00	40,964.00	19,167.00	8,604.00	726,444.50	101,441.20	37,954.50	222,035.00	1,087,875.20

*) 1976-1986: the costs of entomological survey are derived from entomological investigation programme

**PROPORTION OF THE COST OF MCP IN SOUTH-EAST SULAWESI
IN THE BUDGETS OF GOVERNMENT OF INDONESIA**

(in thousands rupiahs)

Year	CENTRAL GOVERNMENT			LOCAL GOVERNMENT			TOTAL BUDGETS		
	Malaria Program	CDC Program	Health Develop'nt	Malaria Program	CDC Program	Health Develop'nt	Malaria Program	CDC Program	Health Develop'nt
1	2	3	4	5	6	7	8	9	10
1994	99,054.00	1,079,100.00	11,515,466.00	0.00	40,000.00	305,000.00	99,054.00	1,119,100.00	11,820,466.00
1993	115,394.00	872,300.00	13,514,539.00	0.00	40,000.00	439,715.00	115,394.00	912,300.00	13,954,248.00
1992	119,292.00	660,511.00	11,214,492.00	0.00	40,000.00	275,000.00	119,292.00	700,511.00	11,469,492.00
1991	71,930.00	637,870.00	8,369,377.00	0.00	30,000.00	185,000.00	71,930.00	667,870.00	8,554,377.00
1990	50,714.00	312,680.45	4,348,807.00	0.00	15,000.00	105,000.00	50,714.00	327,680.45	4,453,807.00
1989	73,433.00	291,515.00	2,777,100.00	0.00	15,000.00	115,000.00	73,433.00	306,515.00	2,892,100.00
1988	34,712.00	163,000.00	843,001.00	0.00	15,000.00	115,000.00	34,712.00	178,000.00	958,001.00
1987	29,979.00	50,000.00	741,887.40	0.00	15,000.00	162,000.00	29,979.00	65,000.00	903,887.40
1986	68,106.00	185,500.00	1,549,055.90	0.00	15,000.00	162,000.00	68,106.00	210,500.00	1,711,055.90
1985	110,750.00	326,000.00	2,444,236.00	0.00	15,000.00	185,000.00	110,750.00	341,000.00	2,629,236.00
1984	121,177.00	283,200.00	2,974,351.00	0.00	12,500.00	197,000.00	121,177.00	295,700.00	3,171,351.00
1983	82,792.00	NA	2,291,445.40	NA	NA	170,000.00	82,792.00	0.00	2,461,445.40
1982	40,345.00	235,260.00	2,547,773.50	NA	NA	160,000.00	40,345.00	235,260.00	2,707,773.50
1981	36,553.00	181,302.00	1,995,713.00	NA	NA	130,000.00	36,553.00	181,302.00	2,125,713.00
1980	68,645.00	NA	1,097,084.00	NA	NA	79,500.00	68,645.00	0.00	1,176,584.00
1979	18,637.00	NA	665,046.00	NA	NA	51,750.00	18,637.00	0.00	716,796.00
1978	13,284.00	58,430.00	467,497.00	NA	NA	41,400.00	13,284.00	58,430.00	508,897.00
1977	9,298.00	31,845.00	267,736.00	NA	NA	43,000.00	9,298.00	31,845.00	330,736.00
1976	8,451.00	31,000.00	200,930.56	NA	NA	22,695.00	8,451.00	31,000.00	229,625.56
1975	7,050.00	27,302.00	204,069.00	NA	NA	28,350.00	7,050.00	27,302.00	232,419.00
1974	4,250.00	17,500.00	99,296.00	NA	NA	19,360.00	4,250.00	17,500.00	118,656.00
1973	6,133.00	18,000.00	48,630.00	NA	NA	11,000.00	6,133.00	18,000.00	59,630.00
1972	NA	14,100.00	42,545.00	NA	NA	15,779.40	0.00	14,100.00	58,324.40
1971	NA	NA	20,000.00	NA	NA	30,000.00	0.00	0.00	50,000.00
1970	NA	NA	25,762.00	NA	NA	26,950.00	0.00	0.00	52,712.00
1969	NA	NA	3,800.00	NA	NA	2,000.00	0.00	0.00	5,800.00
TOTAL	1,209,981.00	5,486,215.45	70,269,433.76	0.00	252,500.00	3,077,499.40	1,209,981.00	5,738,715.45	73,366,933.16

**THE OUTCOME AND COVERAGE OF IRS AND OTHER MCP ACTIVITIES
IN SOUTH-EAST SULAWESI PROVINCE, INDONESIA**

Year	PR (%)	PR(t-1) (%)	% PR ((t-1)-t)	Total Cost of MCP (Current Value)	Total Cost of MCP (Real Value)	COVERAGE OF IRS *)			Proportion of Vector Indoor Resting Behavior			Coverage of Mal. Treat. *)	Literacy Rate (%)	Income of People (Real Value)	
						DDT	Ficam	ICON	An.sub.	An.flav.	An.bar.				
						(%)	(%)	(%)	(X4)	(X5)	(X6)				
(Yt)	(Yt-1)	(dYt)	(X1)	(X2)	(X3a)	(X3b)	(X3c)	(X4)	(X5)	(X6)	(X7)	(X8)	(X9)		
1973	28.33	40.03	29.23	6,133,800	6,133,800	3.81						1.34	NA	NA	
1974	25.22	28.33	10.98	4,250,000	3,893,000	6.41						0.55	NA	NA	
1975	10.98	25.22	56.54	7,050,000	5,915,345	11.03						1.48	NA	NA	
1976	10.01	10.98	8.87	8,451,000	6,495,230	13.23					33.52	2.66	NA	NA	
1977	6.14	10.01	38.66	9,298,000	6,545,931	11.18				39.49	25.95	1.06	NA	NA	
1978	12.06	6.14	(96.42)	13,284,000	8,568,556	23.25				24.34	18.95	4.01	NA	63,691.58	
1979	18.09	12.06	(33.42)	18,637,000	11,009,025	21.85				0.00	22.78	3.07	NA	66,578.32	
1980	11.30	18.09	29.77	68,645,000	37,143,021	22.68					21.05	23.52	3.63	68.53	84,160.12
1981	4.82	11.30	57.35	36,553,000	18,117,022	26.96					7.25	64.02	2.51	NA	92,053.06
1982	2.97	4.82	38.38	40,345,000	18,316,774	32.61					21.17	70.15	2.71	NA	105,555.35
1983	7.36	2.97	(147.81)	82,792,000	34,430,483	31.74					2.36	53.30	2.33	NA	112,463.07
1984	4.37	7.36	40.63	136,000,000	51,807,060	26.68					0.00	35.59	2.86	NA	121,920.19
1985	4.22	4.37	3.43	200,950,000	70,118,674	74.12						41.21	2.90	74.82	110,852.63
1986	1.28	4.22	69.59	88,108,000	28,161,547	69.31						30.77	2.65	NA	110,402.43
1987	1.48	1.28	(15.23)	38,908,000	11,390,773	14.01							1.83	NA	112,806.39
1988	1.60	1.48	(7.92)	117,096,000	31,403,219	17.02							1.92	NA	130,726.25
1989	1.86	1.60	(17.97)	73,433,000	18,039,265	49.07							5.39	NA	132,861.35
1990	1.04	1.86	44.98	78,605,000	17,667,776	29.76							1.78	84.17	130,357.26
1991	1.18	1.04	(13.99)	156,321,000	32,220,765	36.45							1.95	NA	135,315.25
1992	1.59	1.18	(34.88)	119,292,000	22,522,952								2.25	NA	132,275.32
1993	1.16	1.59	26.94	115,394,000	19,956,863								2.01	NA	136,468.45
1994	1.08	1.16	7.48	99,054,000	15,691,952								2.09	NA	144,929.26
1995	0.64	1.08	40.55												

*) Population coverage

Not yet begin or have been stopped
No data

Real value: $C_n = C_0 \times (1 - i)^n$ C_n = Cost at time n C_0 = Cost at time 0

i = average inflation rate (8.4% for 1980-1990)

Cost and income are measured in rupiahs

**THE OUTCOME AND COST PER POPULATION OF MCP
IN SOUTH-EAST SULAWESI PROVINCE**

Year	PR (%)	PR ((t-1)-t)	% PR ((t-1)-t)	Cost of MCP per Population (X1)	COSTS OF IRS *)			COSTS OF OTHER VCMs *)					TOTAL COST of VCMs (X10)	Costs*) of Mal. Treat. (X11)	Costs*) of Mal. Surveil. (X12)	Income of People (X13)
					DDT (t)	Ficam (t)	ICON (t)	IIBN (t)	Larvici-ding (t)	Source Reduct. (t)	Predator Fish (t)	Environ. Managem. (t)				
	(Yt)	(Yt-1)	(dYt)	(X1)	(X2)	(X3)	(X4)	(X5)	(X6)	(X7)	(X8)	(X9)	(X10)	(X11)	(X12)	(X13)
1973	28.33	40.03	29.23	8.24	NA								NA	NA	NA	NA
1974	25.22	28.33	10.98	5.61	NA								NA	NA	NA	NA
1975	10.96	25.22	56.54	9.18	NA								NA	NA	NA	NA
1976	10.01	10.96	8.67	10.24	NA								NA	NA	NA	NA
1977	6.14	10.01	38.66	11.18	NA								NA	NA	NA	NA
1978	12.06	6.14	(96.42)	15.73	NA								NA	NA	NA	98,765.36
1979	16.09	12.06	(33.42)	21.45	NA								NA	NA	NA	112,709.37
1980	11.30	16.09	29.77	72.85	NA								NA	NA	NA	155,538.54
1981	4.82	11.30	57.35	37.05	NA								NA	NA	NA	185,726.75
1982	2.97	4.82	38.38	39.96	NA								NA	NA	NA	232,498.94
1983	7.36	2.97	(147.81)	78.22	NA								NA	NA	NA	270,430.21
1984	4.37	7.36	40.63	125.04	NA								NA	NA	NA	320,055.59
1985	4.22	4.37	3.43	179.46	NA								NA	NA	NA	317,687.64
1986	1.28	4.22	69.59	73.98	NA								NA	NA	NA	345,412.03
1987	1.48	1.28	(15.23)	32.11	NA								NA	NA	NA	385,298.27
1988	1.60	1.48	(7.92)	94.63	56.97					11.53	5.76		68.88	2.38	11.94	487,450.71
1989	1.88	1.60	(17.97)	58.21	30.74					0.00	1.85		29.07	8.07	17.54	540,842.82
1990	1.04	1.88	44.98	58.24	36.52				1.32	8.08	0.00		46.86	0.30	9.32	579,311.54
1991	1.18	1.04	(13.99)	113.99	54.93			12.70	1.66	6.60	2.64		90.55	4.51	18.93	656,490.15
1992	1.59	1.18	(34.88)	86.04		56.27		0.18	2.16	0.00	1.69	6.21	68.33	5.26	19.52	700,591.45
1993	1.16	1.59	26.94	81.57		53.56		0.35	2.03	4.77	1.25	0.00	69.56	2.82	16.78	806,429.65
1994	1.08	1.16	7.48	68.66			38.74	0.00	2.18	0.00	1.36	0.00	51.54	4.81	19.64	914,852.58
	0.64	1.08	40.55	ERR												

*) Cost per population in Current Value  Not yet begin or have been stopped

**NUMBER OF MALARIA CASES AND BLOOD FILM EXAMINATION
BY PASSIVE CASE DETECTION AND MALARIOMETRIC SURVEY
IN SOUTH-EAST SULAWESI, INDONESIA**

Year	Total Population	PASSIVE CASE DETECTION					M.S. : 0 - 11 months			M.S. : 0 - 9 years			M.S : All ages		
		# Cases	% Cases	# blood	+ mal	% Pos.	# blood	+ mal	% Pos.	# blood	+ mal	% Pos.	# blood	+ mal	% Pos.
1	2	3	4	5	6	7	8	9	10	11	12	13	17	18	19
1995	1,447,848	31,735	2.19	NA	NA	NA	548	2	0.36	12,347	79	0.64	12,347	79	0.64
1994	1,442,596	30,132	2.09	12,177	1,565	12.85	754	0	0.00	18,024	183	1.02	18,212	196	1.08
1993	1,414,630	28,388	2.01	2,379	960	40.35	764	3	0.39	11,188	128	1.14	11,262	131	1.16
1992	1,386,540	24,653	1.78	1,204	298	24.75	1,310	8	0.61	16,736	248	1.48	16,958	270	1.59
1991	1,371,303	23,071	1.68	1,567	1,263	80.60	1,303	14	1.07	21,263	251	1.18	21,263	251	1.18
1990	1,349,619	19,220	1.42	3,470	1,025	29.54	1,187	7	0.59	18,274	236	1.29	22,789	236	1.04
1989	1,261,569	19,033	1.51	3,425	1,919	56.03	2,615	39	1.49	50,816	992	1.95	54,987	1,035	1.88
1988	1,237,467	23,739	1.92	2,907	300	10.32	63	1	1.59	1,546	27	1.75	2,319	37	1.60
1987	1,211,811	22,229	1.83	1,496	230	15.37	173	1	0.58	5,234	93	1.78	7,643	113	1.48
1986	1,190,895	31,503	2.65	9,223	1,467	15.91	147	1	0.68	5,259	76	1.45	8,573	110	1.28
1985	1,119,726	31,486	2.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	37,035	NA	4.22
1984	1,087,611	33,179	3.05	13,244	1,080	8.15	NA	NA	NA	NA	NA	NA	31,125	NA	4.37
1983	1,058,392	34,743	3.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	24,709	NA	7.36
1982	1,009,538	21,810	2.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	26,140	NA	2.97
1981	986,639	19,082	1.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	22,473	NA	4.82
1980	942,302	24,978	2.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	16,471	NA	11.30
1979	869,028	13,597	1.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,911	NA	16.09
1978	844,498	4,808	0.57	1,573	99	6.29	NA	NA	NA	NA	NA	NA	13,159	NA	12.06
1977	831,554	13,382	1.61	2,095	200	9.55	NA	NA	NA	NA	NA	NA	10,126	NA	6.14
1976	825,319	7,248	0.88	1,800	344	19.11	NA	NA	NA	NA	NA	NA	8,896	NA	10.01
1975	768,370	9,195	1.20	367	156	42.51	NA	NA	NA	NA	NA	NA	8,400	NA	10.98
1974	757,248	6,822	0.90	984	614	61.77	NA	NA	NA	NA	NA	NA	7,500	NA	25.22
1973	744,669	7,270	0.98	1,485	1,252	84.31	NA	NA	NA	NA	NA	NA	8,605	NA	28.33
1972	731,713	7,620	1.04	572	572	100.00	NA	NA	NA	NA	NA	NA	3,416	NA	40.03
AVERAGE	1,078,787	20,372	1.89	3,528	785	22.25	886	8	0.86	16,069	231	1.44	16,930	246	1.45

**NUMBER OF MALARIA BLOOD FILM EXAMINED BY MALRIMETRIC SURVEY
IN SOUTH-EAST SULAWESI, INDONESIA DURING 1989 - 1995**

Years	Age Groups	Buton District (island)			Muna District (island)			Kendari District (mainland)			Kolaka District (mainland)			TOTAL		
		# blood	+ mal.	% Pos.	# blood	+ mal.	% Pos.	# blood	+ mal.	% Pos.	# blood	+ mal.	% Pos.	# blood	+ mal.	% Pos.
1		2	3	4	5	6	7	8	9	10	11	12	13			
1995/96	0-11 mont.	NA	NA	NA	39	0	0.00	386	0	0.00	51	0	0.00	476	0	0.00
	0-9 years	NA	NA	NA	2,267	18	0.79	6,071	0	0.00	1,967	29	1.46	10345	47	0.45
	all ages	NA	NA	NA	2,267	13	0.57	6,071	10	0.16	1,967	29	1.46	10345	52	0.50
	P.falcipar.	NA	NA	NA	13	9	69.23	10	6	60.00	29	8	27.59	52	23	44.23
1994/95	0-11 mont.	386	0	0.00	287	0	0.00	0	--	--	99	0	0.00	772	0	0.00
	0-9 years	6,712	148	2.21	4,665	20	0.43	4,593	5	0.11	2,054	10	0.49	18024	183	1.02
	all ages	6,900	161	2.33	4,665	20	0.43	4,593	5	0.11	2,054	10	0.49	18212	196	1.08
	P.falcipar.	161	59	36.65	20	8	40.00	5	1	20.00	10	7	70.00	196	75	38.27
1993/94	0-11 mont.	418	3	0.72	112	0	0.00	234	0	0.00	--	--	--	764	3	0.39
	0-9 years	3,366	117	3.48	3,772	11	0.29	4,050	0	0.00	--	--	--	11188	128	1.14
	all ages	3,440	120	3.49	3,772	11	0.29	4,050	0	0.00	--	--	--	11262	131	1.16
	P.falcipar.	120	6	5.00	11	5	45.45	0	0	0.00	--	--	--	131	11	8.40
1992/93	0-11 mont.	359	6	1.67	257	1	0.39	415	0	0.00	11	1	9.09	1042	8	0.77
	0-9 years	4,911	156	3.18	5,247	77	1.47	6,236	1	0.02	342	14	4.09	16736	248	1.48
	all ages	5,068	176	3.47	5,247	77	1.47	6,236	3	0.05	342	14	4.09	16893	270	1.60
	P.falcipar.	176	93	52.84	77	35	45.45	3	1	33.33	14	6	42.86	270	135	50.00
1991/92	0-11 mont.	474	10	2.11	525	4	0.76	153	0	0.00	151	0	0.00	1303	14	1.07
	0-9 years	6,573	210	3.19	11,391	36	0.32	1,999	5	0.25	1,300	0	0.00	21263	251	1.18
	all ages	6,573	210	3.19	11,391	36	0.32	1,999	5	0.25	1,300	0	0.00	21263	251	1.18
	P.falcipar.	210	57	27.14	36	6	16.67	5	3	60.00	0	0	0.00	251	66	26.29
1990/91	0-11 mont.	560	6	1.07	294	1	0.34	199	0	0.00	134	0	0.00	1187	7	0.59
	0-9 years	6,831	154	2.25	7,571	82	1.09	3,084	0	0.00	788	0	0.00	18274	236	1.29
	all ages	6,831	154	2.25	7,571	82	1.09	5,984	0	0.00	2,403	0	0.00	22789	236	1.04
	P.falcipar.	154	40	25.97	82	46	56.10	0	0	0.00	0	0	0.00	236	86	36.44
1989/90	0-11 mont.	783	18	2.30	981	20	2.04	620	1	0.16	231	0	0.00	2615	39	1.49
	0-9 years	18,268	598	3.27	18,177	364	2.00	10,700	10	0.09	3,651	20	0.55	50816	992	1.95
	all ages	18,268	598	3.27	18,177	364	2.00	14,137	24	0.17	4,385	49	1.12	54937	1035	1.89
	P.falcipar.	598	187	31.27	364	102	28.02	24	15	62.50	49	2	4.08	1035	306	29.57

MALARIA VECTORS INFORMATION IN SOUTH-EAST SULAWESI, INDONESIA
1976 - 1986

Vector Species	Area of Study (Villages)	Year	Vector Density			Vector Proportion			Abdominal Condition (%)				Parous Rate (%)	Remarks	
			Human Bait		Night	Human Bait		Night	Unfed	Blood Fed	Half Gravid	Gravid			
			Indoor	Outdoor	Ind. Rest.	Indoor	Outdoor	Ind. Rest.							
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
An. subpictus	Nambo	1976	1.61	4.97	3.32	16.23	50.25	33.52	53.17	29.36	10.31	7.14	-		
		1977	0.97	1.43	1.57	24.47	38.04	39.49	56.19	28.57	10.47	4.78	-		
		1978	0.57	1.00	0.51	27.80	48.06	24.34	12.82	69.23	5.13	12.82	-	1st spraying	
		1979	0.04	0.21	0.00	16.98	83.04	0.00	-	-	-	-	-	-	
An. flavirostris	Woncho	1977	1.35	3.87	1.83	19.13	54.92	25.95	0.00	100.00	0.00	0.00	-		
		1978	0.61	0.81	0.33	34.97	46.05	18.98	-	-	-	-	-		
		1979	0.49	0.97	0.43	25.82	51.42	22.76	-	-	-	-	-		
		1980	0.17	0.46	0.17	21.05	57.89	21.05	-	-	-	-	-	71.43	
		1981	0.41	0.48	0.07	42.51	50.24	7.25	60.00	20.00	0.00	0.00	0.00	75.00	
		1982	0.34	0.57	0.24	29.17	49.68	21.17	62.00	18.00	0.00	0.00	0.00	78.36	
		1983	1.02	2.60	0.09	27.52	70.12	2.38	25.00	75.00	0.00	0.00	0.00	42.82	1st spraying
		1984	0.52	0.79	0.00	39.62	60.38	0.00	-	-	-	-	-	31.15	
An. barbirostris	Woncho	1977	0.00	0.12	0.00	0.00	100.00	0.00	-	-	-	-	-		
		1978	0.02	0.00	0.06	24.00	0.00	78.00	-	-	-	-	-		
		1979	0.42	0.59	1.38	17.85	24.87	57.46	-	-	-	-	-	50.00	
		1980	0.38	0.40	0.65	26.26	28.21	45.53	73.88	26.32	0.00	0.00	0.00	73.53	
		1981	2.59	3.61	1.36	34.27	47.74	17.99	70.13	23.38	3.90	2.60	0.00	56.61	
		1982	0.89	0.95	0.68	37.75	38.38	25.87	68.85	29.51	0.00	1.64	0.00	60.44	
		1983	0.02	1.20	0.98	31.85	37.50	30.66	60.38	17.88	1.79	0.00	0.00	51.88	1st spraying
		1984	0.67	1.75	0.72	21.22	41.46	22.59	78.92	23.08	0.00	0.00	0.00	33.59	
An. barbirostris	Lalohao & Wawoiemo (Exposure areas)	1980	0.17	1.85	0.61	6.95	70.38	23.27	100.00	0.00	0.00	0.00	41.27		
		1981	8.28	11.12	34.51	15.35	20.83	64.02	97.61	2.28	0.13	0.00	39.80		
		1982	2.69	3.10	13.61	13.86	16.00	70.15	67.13	2.87	0.00	0.00	33.87		
		1983	1.22	3.90	5.84	11.14	35.56	53.30	-	-	-	-	25.03	1st spraying	
		1984	0.91	2.80	2.05	15.75	48.88	35.59	-	-	-	-	53.05		
		1985	0.32	0.87	0.83	15.74	43.05	41.21	100.00	0.00	0.00	0.00	42.42		
		1986	0.88	2.12	1.33	20.28	48.95	30.77	54.18	45.83	0.00	0.00	0.00	54.24	
An. barbirostris	Pondidana - Tetsona (Control areas)	1980	0.75	0.94	2.67	17.20	21.66	61.15	100.00	0.00	0.00	0.00	39.84		
		1981	5.63	18.63	18.29	19.06	18.93	62.00	96.12	3.38	0.33	0.17	40.05		
		1982	2.00	2.11	9.25	15.00	15.77	69.24	94.71	5.29	0.00	0.00	36.11		
		1983	2.77	4.80	5.76	20.84	36.43	42.93	?	?	?	?	29.45		
		1984	3.43	4.80	6.48	23.33	32.83	44.04	?	?	?	?	50.23		

**GROSS REGIONAL DOMESTIC PRODUCTS, PER CAPITA INCOME
LITERACY RATE OF SOUTH-EAST SULAWESI, INDONESIA**

Year	GRDP		Per capita Income		Discoun- ting Rate (%)	Annual Inflation Rate	Literacy Rate (%)
	Nominal (thousands rph)	Real *) (thousands rph)	Nominal (rupiahs)	Real *) (rupiahs)			
1	2	3	4	5	6	7	8
1994	1.510.297.090.00	1.373.870.400.00	914.852.58	831.564.83	9.83	9.83	NA
1993	1.289.180.840.00	1.289.180.840.00	808.429.65	808.429.65	0.00	8.41	NA
1992	1.063.910.470.00	813.408.750.00	700.591.46	407.191.29	73.44	9.14	NA
1991	961.418.840.00	585.165.490.00	658.490.15	401.708.28	84.30	8.03	NA
1990	821.398.340.00	525.835.260.00	579.311.54	372.395.65	56.27	0.89	84.17
1989	722.869.450.00	465.094.480.00	540.842.82	348.987.58	55.38	5.77	NA
1988	629.518.520.00	420.778.250.00	487.450.71	324.970.20	49.61	24.59	NA
1987	482.926.370.00	366.295.060.00	385.298.27	308.601.63	25.02	10.68	NA
1986	418.882.280.00	368.355.040.00	345.412.03	302.632.11	14.34	2.88	NA
1985	372.788.870.00	334.777.630.00	317.687.64	266.594.09	11.35	(0.68)	74.82
1984	360.532.310.00	322.105.530.00	320.055.59	285.630.41	11.93	11.93	NA
1983	294.274.870.00	294.274.870.00	270.430.21	270.430.21	0.00	0.00	NA
1982	242.362.150.00	85.613.260.00	232.498.94	61.482.70	183.09	32.34	NA
1981	186.200.750.00	74.256.830.00	185.728.75	73.355.74	150.75	37.92	NA
1980	142.865.110.00	67.127.460.00	155.538.54	72.435.07	112.83	44.71	68.53
1979	100.342.850.00	59.687.780.00	112.709.37	66.847.43	88.11	29.40	NA
1978	82.852.980.00	59.588.270.00	88.765.38	68.385.05	38.71	0.00	NA
AVERAGE	569.542.628.82	430.777.354.12	418.358.33	312.331.88	32.21	15.81	

Note :

*) Constant price for 1973-1983 -> 1973
 Constant price for 1983-1982 -> 1983
 Constant price for 1983-1984 -> 1983

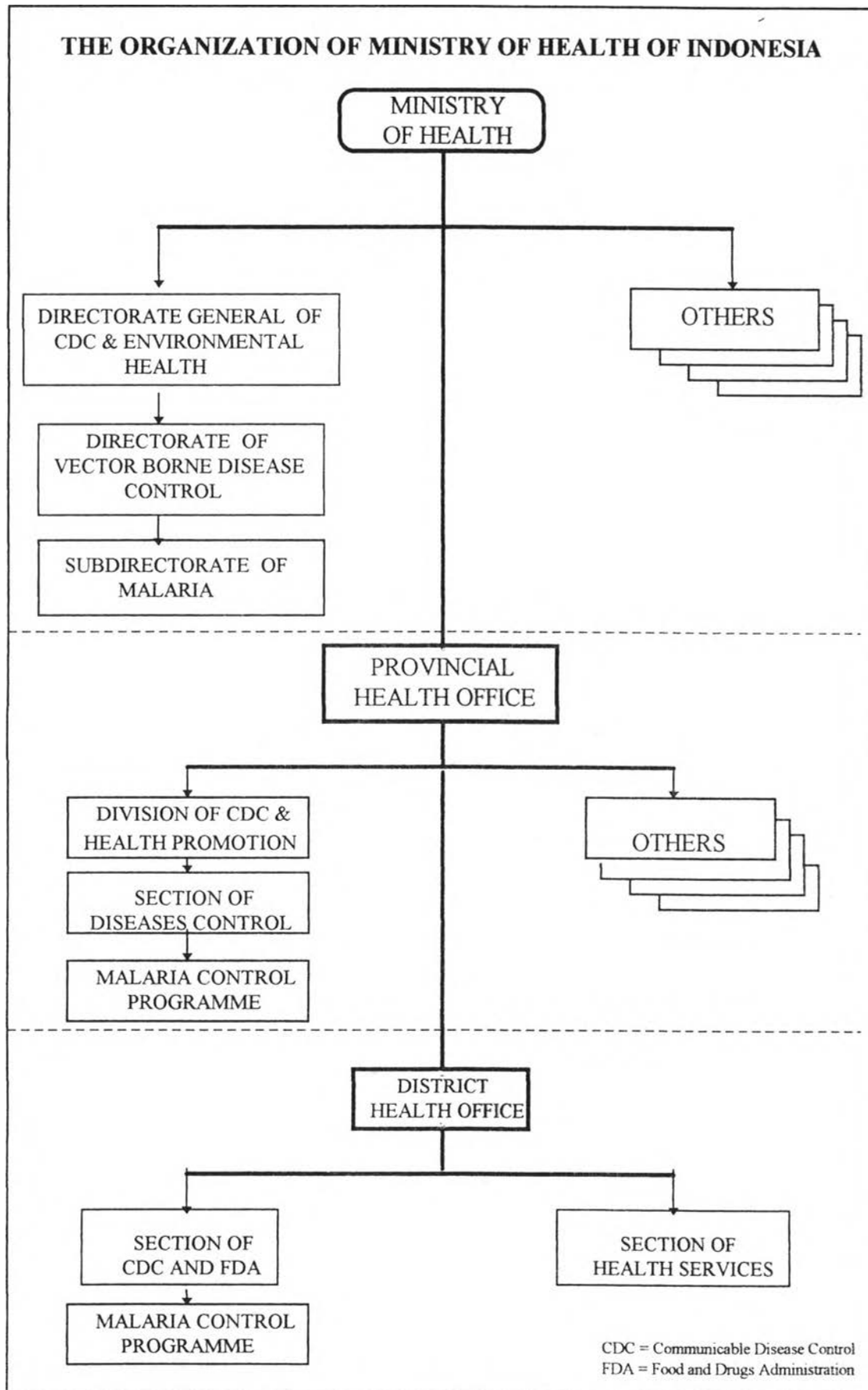
Median of inflation rate = 9.14 %

Average Annual Inflation Rate (World Bank Report, 1993):

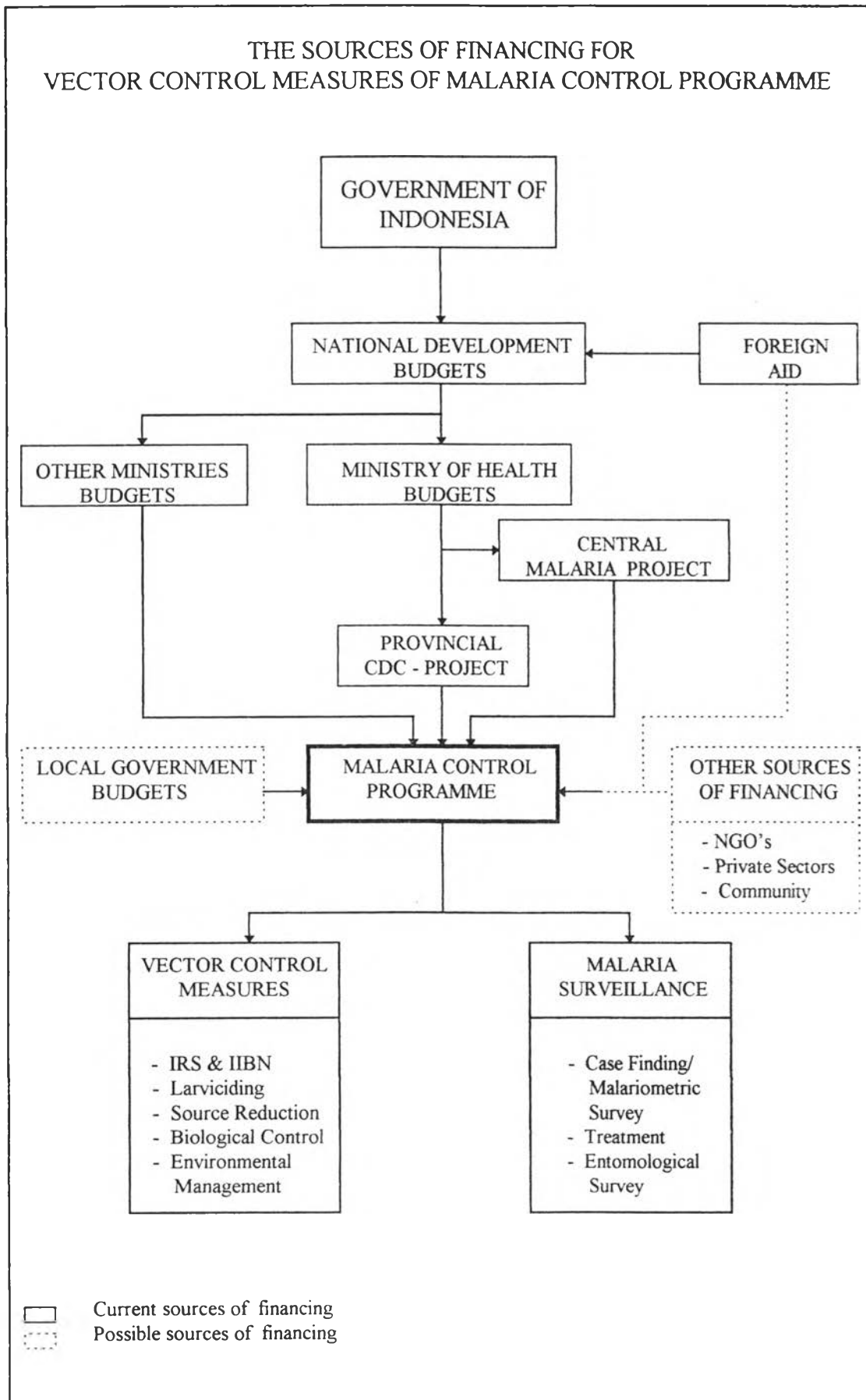
1965-1980 : 35.5 %

1980-1990 : 8.4 %

APPENDIX - 7.1



APPENDIX - 7.2



CURRICULUM VITAE

1. **N a m e** : LaOde Saafi
2. **Place and date of birth** : Buton (Indonesia), 13 July 1949
3. **S e x** : Male
4. **Nationality** : Indonesian
5. **Marital status** : Married
6. **Occupation** : Government Official,
Provincial Health Office,
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7. **Addresses** : Office : Jalan Dr. Ratulangi 147
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Phone (62-401) - 23310
8. **Educations** :

B.A. in Public Administration (Kendari -Indonesia, 1978)
D.A.P.& E. (Kuala Lumpur- Malaysia, 1984)
Drs. in Public Administration (Ujung Pandang - Indonesia, 1987)
9. **Courses / Trainings** :
 - a. National : various training in medical entomology, data analysis, health planning and programme evaluation, etc.
 - b. International :
 - (1). Management for Applied Statistical Data (3 months), University of Reading, U.K., in 1989.
 - (2). Public Health Course in Biostatistics and Epidemiology (10 months), College of Public Health, University of the Philippines, Manila in 1991-1992.
 - (3). Advanced Epidemiology (2 weeks), University of Indonesia, Jakarta, 1994.

