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ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

In accord with Resolution XXVI of the XIII Meeting of the Directing Council, the Sixth Revision of the Estimated Requirements for the PAHO Special Malaria Fund is presented herewith for study by the Directing Council.

This presentation includes estimated requirements in each year from 1967 through 1971 for individual country programs as well as for zone and regional projects and headquarters. The requirements show not only Special Malaria Fund but other sources of funding and indicates the expected level of each. Information is therefore included concerning financing from the PAHO regular budget, the WHO regular budget, the WHO Malaria Eradication Special Account and the Expended Program of Technical Assistance. The tables show separately the estimated requirements of the Organization with regard to personnel, supplies and equipment, fellowships, grants and other expenses for each program in which the Organization participates. Standard PAHO/WHO budgeting methods have been used and all amounts are shown in U.S. dollars.

Individual project tables are presented showing a break-down of personnel by type and a short description of the state of the program and the Organization's plans for the future. The collaboration of UNICEF and/or USAID is indicated where appropriate. Requirements of the programs in which the Organization does not participate directly are not shown nor are they included in the summary table.

Estimates of the amounts shown here were made in mid-1967 on the basis of information available at that time concerning the progress of the campaigns and their probable duration. Estimated requirements include provision for salary increases for international personnel.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Summary

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	64,172,382	69,911,019	61,419,999	55,957,400	50,106,900	301,567,700
GOVT. AND OTHER SOURCES	60,399,400	66,129,400	57,667,400	52,620,400	47,029,000	283,845,600
PAHO/WHO PORTION						
Personnel costs and travel	2,854,978	2,965,581	3,109,079	2,705,100	2,519,000	14,153,738
Supplies and equipment	408,046	413,488	412,100	374,100	364,100	1,971,834
Fellowships	101,708	74,300	77,570	51,400	37,400	342,378
Grants and others	408,250	328,250	153,850	206,400	157,400	1,254,150
SUB-TOTAL PAHO/WHO	3,772,982	3,781,619	3,752,599	3,337,000	3,077,900	17,722,100

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.	280,878	484,832	685,760	894,100	1,146,300	3,492,670
PAHO-SMF	2,214,965	1,984,862	1,885,246	1,345,700	831,800	8,261,573
WHO-Reg.	478,991	478,000	478,000	420,200	420,800	2,275,991
WHO-MESA	707,800	738,016	600,738	570,000	568,000	3,184,554
WHO-TA	90,348	95,909	102,855	107,000	111,000	507,112
TOTAL	3,772,982	3,781,619	3,752,599	3,337,000	3,077,900	17,722,100

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	44	43	43	39	38
Sanitary Engineer	17	16	16	15	8
Entomologist	16	12	12	10	10
Health Educator	2	2	2		
Sanitary Inspector	60	60	60	47	38
Entomologist Assistant or Entomology Aide	3	3	3	2	2
Others	24	25	25	23	23
TOTAL	166	161	161	136	119

OBSERVATIONS

Figures shown include all malaria eradication country projects, AMRO projects, supporting personnel in Zone offices and Malaria Eradication Branch. They do not include activities in countries or territories entirely in maintenance phase, nor those of Venezuela.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Argentina

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	1,163,756	1,233,184	1,237,811	1,230,000	1,234,000	6,098,751
GOVT. AND OTHER SOURCES	1,130,000	1,200,000	1,200,000	1,200,000	1,200,000	5,930,000
PAHO/WHO PORTION						
Personnel costs and travel	27,956	30,184	34,811	27,000	31,000	150,951
Supplies and equipment	3,000	3,000	3,000	3,000	3,000	15,000
Fellowships	2,800					2,800
Grants and others						
SUB-TOTAL PAHO/WHO	33,756	33,184	37,811	30,000	34,000	168,751

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.		33,184	37,811	30,000	34,000	134,995
PAHO-SMF	33,756					33,756
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	33,756	33,184	37,811	30,000	34,000	168,751

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector	1	1	1		
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	2	2	2	1	1

OBSERVATIONS

UNICEF collaborates in this program.

Attack phase, begun in most of the malarious area in 1959, was extended in 1966 to cover the province of El Chaco, but has not yet covered Formosa.

PAHO will provide the services of a medical officer and one sanitarian, as well as anti-malarial drugs for presumptive treatment of fever cases, radical cure of confirmed cases, and a fellowship in 1967.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Bolivia

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	414,458	409,271	411,967	400,000	402,000	2,037,696
GOVT. AND OTHER SOURCES	340,000	330,000	330,000	330,000	330,000	1,660,000
PAHO/WHO PORTION						
Personnel costs and travel	67,458	72,271	74,967	63,000	65,000	342,696
Supplies and equipment	7,000	7,000	7,000	7,000	7,000	35,000
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	74,458	79,271	81,967	70,000	72,000	377,696

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.	74,458	79,271	81,967	70,000	72,000	377,696
PAHO-SMF						
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	74,458	79,271	81,967	70,000	72,000	377,696

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector	3	3	3	2	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	4	4	4	3	3

OBSERVATIONS

UNICEF and US/AID cooperate in this program.

Further progress was made during 1966 in eliminating areas of persistent transmission in the center and south of the country. Operations in the Amazon basin provinces of Pando and the Beni are geared to maintaining the present favorable situation until neighboring areas in Brazil are brought under complete attack, at which time intensive activity to clear the area definitively will be initiated.

In addition to the services of a medical officer and three sanitarians, PAHO provides drugs for radical-cure treatment and, where needed, collective treatment in foci.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Brazil-0200 (Excluding São Paulo)

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	14,461,225	17,053,894	19,128,910	19,252,500	20,058,500	89,955,029
GOVT. AND OTHER SOURCES	14,040,000	16,620,000	18,670,000	18,780,000	19,570,000	87,680,000
PAHO/WHO PORTION						
Personnel costs and travel	315,679	323,806	348,710	364,500	380,500	1,733,195
Supplies and equipment	101,346	105,888	106,000	106,000	106,000	525,234
Fellowships	4,200	4,200	4,200	2,000	2,000	16,600
Grants and others						
SUB-TOTAL PAHO/WHO	421,225	433,894	458,910	472,500	488,500	2,275,029

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	389,575	416,992	458,910	472,500	488,500	2,226,477
WHO-Reg.	31,650	16,902				48,552
WHO-MESA						
WHO-TA						
TOTAL	421,225	433,894	458,910	472,500	488,500	2,275,029

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	5	5	5	5	5
Sanitary Engineer	2	2	2	2	2
Entomologist	3	3	3	3	3
Health Educator					
Sanitary Inspector	4	4	4	4	4
Entomologist Assistant or Entomology Aide					
Others	4	4	4	4	4
TOTAL	18	18	18	18	18

OBSERVATIONS

US/AID participates in this program.

During 1966 the program extended complete attack coverage to large additional areas and placed some areas previously in attack phase in the consolidation phase.

PAHO/WHO will provide the services of advisers, anti-malarial drugs for presumptive and radical-cure treatments, and fellowships. The addition of a parasitologist to the team is under consideration.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Brazil- 0201 (São Paulo)

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	3,147,987	3,130,000	3,130,000	3,130,000	3,130,000	15,667,987
GOVT. AND OTHER SOURCES <u>1/</u>	3,130,000	3,130,000	3,130,000	3,130,000	3,130,000	15,650,000
PAHO/WHO PORTION						
Personnel costs and travel	17,587					17,587
Supplies and equipment	400					400
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	17,987					17,987

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	17,987					17,987
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	17,987					17,987

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1				
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	1				

1/ Includes activities for the control of Chagas disease.

OBSERVATIONS

AID participates in this program.

Surveillance in the consolidation areas continues, to prevent the spread of re-infection from the many cases imported from the other states of Brazil. Attack operations continue to be necessary in border areas.

PAHO provides the services of a medical officer and anti-malarial drugs for radical-cure treatment and for use in foci.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Brazil-0202
Training Center for Malaria Eradication, Rio de Janeiro

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	91,495	94,130	97,293			282,918
GOVT. AND OTHER SOURCES ^{1/}						
PAHO/WHO PORTION						
Personnel costs and travel	26,495	29,130	32,293			87,918
Supplies and equipment	40,000	40,000	40,000			120,000
Fellowships						
Grants and others	25,000	25,000	25,000			75,000
SUB-TOTAL PAHO/WHO	91,495	94,130	97,293			282,918

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.	25,000	25,000	97,293			147,293
PAHO-SMF	66,495	69,130				135,625
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	91,495	94,130	97,293			282,918

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1		
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	1	1	1		

OBSERVATIONS

^{1/} Government contributions are included in Brazil-0200

Provision is made for the services of a medical officer and for supplies and equipment and a grant toward local costs, for a Training Center within the Malaria Eradication Campaign of Brazil. Training needs in this expanding program are great, and the Center would also serve in the training of PAHO fellows.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Colombia

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	5,352,349	5,561,526	5,538,813	5,421,600	5,428,600	27,302,888
GOVT. AND OTHER SOURCES	5,120,000	5,320,000	5,280,000	5,280,000	5,280,000	26,280,000
PAHO/WHO PORTION						
Personnel costs and travel	208,749	217,926	235,213	118,000	125,000	904,888
Supplies and equipment	18,000	18,000	18,000	18,000	18,000	90,000
Fellowships	5,600	5,600	5,600	5,600	5,600	28,000
Grants and others						
SUB-TOTAL PAHO/WHO	232,349	241,526	258,813	141,600	148,600	1,022,888

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.	75,831	241,526	258,813	141,600	148,600	866,370
PAHO-SMF	156,518					156,518
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	232,349	241,526	258,813	141,600	148,600	1,022,888

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	2
Sanitary Engineer	2	2	2	2	2
Entomologist	4	1	1	1	1
Health Educator					
Sanitary Inspector	7	7	7	4	4
Entomologist Assistant or Entomology Aide	1	1	1		
Others					
TOTAL	16	13	13	9	9

OBSERVATIONS

UNICEF participates in this program.

A considerable part of the malarious area has already attained consolidation phase, but other areas remaining in attack require and are receiving supplementary attack measures such as inter-cyclical spraying and presumptive radical-cure treatment of all fever cases concurrently with semi-annual spray cycles. Attack will be extended during 1967 to include the preparatory-phase areas in the south.

PAHO provides the services of advisers, anti-malarial drugs and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Costa Rica

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	893,591	871,295	790,114	772,000	775,000	4,102,000
GOVT. AND OTHER SOURCES	824,000	800,000	708,000	700,000	700,000	3,732,000
PAHO/WHO PORTION						
Personnel costs and travel	59,191	62,295	70,614	64,000	67,000	323,100
Supplies and equipment	8,000	8,000	8,000	8,000	8,000	40,000
Fellowships	2,400	1,000	3,500			6,900
Grants and others						
SUB-TOTAL PAHO/WHO	69,591	71,295	82,114	72,000	75,000	370,000

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.					40,200	40,200
PAHO-SMF	37,960	37,114	50,392	38,800		164,266
WHO-Reg.	31,631	34,181	31,722	33,200	34,800	165,534
WHO-MESA						
WHO-TA						
TOTAL	69,591	71,295	82,114	72,000	75,000	370,000

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector	3	3	3	3	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	4	4	4	4	3

OBSERVATIONS

UNICEF and US/AID participate in this program.

Together with the other Central American countries, Costa Rica has completed arrangements for financing an intensive attack phase during 1967-69. During 1966 operations were much below the technically required level because of inadequate financing, and incidence climbed rapidly.

PAHO provides the services of a medical officer and three sanitarians as well as anti-malarial drugs and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Cuba

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	2,187,000	2,068,478	2,067,903	2,010,000		8,333,381
GOVT. AND OTHER SOURCES	2,120,000	2,000,000	2,000,000	2,000,000		8,120,000
PAHO/WHO PORTION						
Personnel costs and travel	52,500	53,978	53,403			159,881
Supplies and equipment	10,000	10,000	10,000	10,000		40,000
Fellowships	3,500	3,500	3,500			10,500
Grants and others	1,000	1,000	1,000			3,000
SUB-TOTAL PAHO/WHO	67,000	68,478	67,903	10,000		213,381

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF						
WHO-Reg.	67,000	68,478	67,903	10,000		213,381
WHO-MESA						
WHO-TA						
TOTAL	67,000	68,478	67,903	10,000		213,381

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1		
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector	2	2	2		
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	3	3	3		

OBSERVATIONS

Attack phase, which began in 1962, has progressed with excellent results and a considerable portion of the malarious area was reclassified to consolidation phase during 1966. Additional areas are expected to be so classified during 1967.

WHO provides advisers, anti-malarial drugs and fellowships and a small sum for common services.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Dominican Republic

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	1,406,738	1,142,116	1,135,471	1,004,000	1,004,000	5,692,325
GOVT. AND OTHER SOURCES	1,300,000	1,050,000	1,040,000	1,001,000	1,001,000	5,392,000
PAHO/WHO PORTION						
Personnel costs and travel	99,538	84,916	88,271			272,725
Supplies and equipment	3,000	3,000	3,000	3,000	3,000	15,000
Fellowships	4,200	4,200	4,200			12,600
Grants and others						
SUB-TOTAL PAHO/WHO	106,738	92,116	95,471	3,000	3,000	300,325

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				3,000	3,000	6,000
PAHO-SMF	106,738	92,116	95,471			294,325
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	106,738	92,116	95,471	3,000	3,000	300,325

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1		
Sanitary Engineer	1				
Entomologist					
Health Educator					
Sanitary Inspector	2	2	2		
Entomologist Assistant or Entomology Aide					
Others	1	1	1		
TOTAL	5	4	4		

OBSERVATIONS

UNICEF participates in this program.

A considerable portion of the malarious area is in consolidation phase and intensified measures were instituted during 1966 to accelerate the clearing of the remaining foci of transmission in attack-phase areas.

PAHO provides the services of advisers (the chief consultant also acting as co-director of the program), anti-malarial drugs and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Ecuador

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	1,207,415	1,971,157	1,749,774	1,603,800	907,800	7,439,946
GOVT. AND OTHER SOURCES	1,080,000	1,840,000	1,610,000	1,500,000	840,000	6,870,000
PAHO/WHO PORTION						
Personnel costs and travel	114,615	118,357	123,204	91,000	55,000	502,176
Supplies and equipment	10,000	10,000	10,000	10,000	10,000	50,000
Fellowships	2,800	2,800	6,570	2,800	2,800	17,770
Grants and others						
SUB-TOTAL PAHO/WHO	127,415	131,157	139,774	103,800	67,800	569,946

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	105,209	112,874	115,574	78,800	41,800	454,257
WHO-Reg.						
WHO-MESA						
WHO-TA	22,206	18,283	24,200	25,000	26,000	115,689
TOTAL	127,415	131,157	139,774	103,800	67,800	569,946

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	1	1
Sanitary Engineer	1	1	1	1	
Entomologist					
Health Educator					
Sanitary Inspector	4	4	4	3	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	7	7	7	5	3

OBSERVATIONS

UNICEF and US/AID participate in this program.

Financial and administrative difficulties mounted during 1966, reducing operations even below the previous inadequate level. Negotiations aimed at provision of adequate budget which will permit technically adequate measures are being carried on. Information collected through the diminished operations of the campaign was insufficient for accurate assessment of the degree of deterioration in the malaria situation.

PAHO/WHO will provide the services of advisers, anti-malarial drugs and fellowships. AID furnishes the services of advisers, of whom one functions as co-director of the program.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

El Salvador

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	1,995,601	2,113,596	2,047,241	1,842,000	1,805,000	9,803,438
GOVT. AND OTHER SOURCES	1,861,000	1,980,000	1,910,000	1,700,000	1,700,000	9,151,000
PAHO/WHO PORTION						
Personnel costs and travel	118,701	119,096	123,741	129,000	92,000	582,538
Supplies and equipment	10,000	10,000	10,000	10,000	10,000	50,000
Fellowships	5,900	4,500	3,500	3,000	3,000	19,900
Grants and others						
SUB-TOTAL PAHO/WHO	134,601	133,596	137,241	142,000	105,000	652,438

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	44,751	49,560	51,039	52,000	11,000	208,350
WHO-Reg.	89,850	84,036	86,202	90,000	94,000	440,088
WHO-MESA						
WHO-TA						
TOTAL	134,601	133,596	137,241	142,000	105,000	652,438

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	2
Sanitary Engineer	1	1	1	1	
Entomologist					
Health Educator					
Sanitary Inspector	4	4	4	4	3
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	7	7	7	7	5

OBSERVATIONS

UNICEF and US/AID participate in this program.

This campaign, together with those of the other Central American countries, will benefit beginning 1967 from improved financing arranged by the government to form the basis of an intensive three-year attack phase. This intensive attack on the technical problems of the Central American region will be coordinated among the five countries and Panama. Recent years have seen a rapid deterioration in the malaria situation, particularly in El Salvador.

PAHO/WHO will provide the services of advisers, anti-malarial drugs for presumptive and radical-cure treatments and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Guatemala

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	2,287,247	2,155,565	1,804,344	1,810,400	1,773,400	9,830,956
GOVT. AND OTHER SOURCES	2,130,000	2,000,000	1,640,000	1,640,000	1,640,000	9,050,000
PAHO/WHO PORTION						
Personnel costs and travel	139,447	139,165	147,944	154,000	117,000	697,556
Supplies and equipment	15,000	15,000	15,000	15,000	15,000	75,000
Fellowships	2,800	1,400	1,400	1,400	1,400	8,000
Grants and others						
SUB-TOTAL PAHO/WHO	157,247	155,565	164,344	170,400	133,400	780,956

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.					31,400	31,400
PAHO-SMF	68,122	68,575	70,506	72,400		279,603
WHO-Reg.						
WHO-MESA	89,125	86,990	93,838	98,000	102,000	469,953
WHO-TA						
TOTAL	157,247	155,565	164,344	170,400	133,400	780,956

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	2
Sanitary Engineer	1	1	1	1	
Entomologist	1	1	1	1	1
Health Educator					
Sanitary Inspector	3	3	3	3	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	7	7	7	7	5

OBSERVATIONS

UNICEF and US/AID participate in this program.

The serious technical problems present in this and the neighboring Central American programs will be attacked in an intensive, coordinated three-year attack phase by the five countries and Panama, beginning 1967. Incidence of malaria has risen sharply during the extended period required for provision of adequate financing.

PAHO/WHO will provide the services of advisers, anti-malarial drugs and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Guyana

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	127,980	147,575	150,006	151,900	123,500	700,961
GOVT. AND OTHER SOURCES	100,400	100,400	100,400	100,400	70,000	471,600
PAHO/WHO PORTION						
Personnel costs and travel	27,080	45,175	49,106	51,000	53,000	225,361
Supplies and equipment	500	2,000	500	500	500	4,000
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	27,580	47,175	49,606	51,500	53,500	229,361

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				51,500	53,500	105,000
PAHO-SMF	27,580	47,175	49,606			124,361
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	27,580	47,175	49,606	51,500	53,500	229,361

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector	2	2	2	2	2
Entomologist Assistant or Entomology Aide					
Others	1	1	1	1	1
TOTAL	3	3	3	3	3

OBSERVATIONS

UNICEF participates in this program.

A set-back occurred in this program during 1966 with the discovery of an extended focus of P. vivax among Amerindians in a remote area of the interior. The districts affected were returned to attack phase with DDT spraying and distribution of medicated salt. Attack operations continued in the Rupununi, which was not influenced by the outbreak.

PAHO provides the services of two sanitary inspectors and a laboratory technician, as well as anti-malarial drugs for radical-cure and presumptive treatment and for medication of salt.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Haiti

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	2,175,714	2,164,147	1,944,087	1,620,000	1,415,000	9,318,948
GOVT. AND OTHER SOURCES	2,035,000	2,035,000	1,810,000	1,530,000	1,340,000	8,750,000
PAHO/WHO PORTION						
Personnel costs and travel	125,714	114,147	119,087	75,000	60,000	433,948
Supplies and equipment	15,000	15,000	15,000	15,000	15,000	75,000
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	140,714	129,147	134,087	90,000	75,000	568,948

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				90,000	75,000	165,000
PAHO-SMF	140,714	129,147	134,087			403,948
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	140,714	129,147	134,087	90,000	75,000	568,948

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	1
Sanitary Engineer	1	1	1		
Entomologist	1				
Health Educator					
Sanitary Inspector	4	4	4	2	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	8	7	7	4	3

OBSERVATIONS

US/AID and UNICEF participate in this program.

The collective treatment program developed during 1965 was continued during 1966, treating at its peak 1.7 million persons. The program was successful in the areas in which it was applied and the number of persons under treatment was gradually reduced to some 300,000 by the end of the year. Mountain areas classified as non-malarious because of the lack of transmission will be canvassed to clear the parasite reservoir which has been found to exist there as a result of internal migration; focal attack with drugs and spraying are planned to eliminate remaining or recurring pockets of transmission.

PAHO provides advisers, of whom one serves as co-director of the program; also provided are drugs for the treatment of cases and for mass drug treatments.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Honduras

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	1,569,000	1,489,885	1,246,198	1,250,000	1,213,000	6,768,083
GOVT. AND OTHER SOURCES	1,500,000	1,410,000	1,160,000	1,160,000	1,160,000	6,390,000
PAHO/WHO PORTION						
Personnel costs and travel	57,800	68,885	76,198	79,000	42,000	323,883
Supplies and equipment	10,200	10,000	10,000	10,000	10,000	50,200
Fellowships	1,000	1,000		1,000	1,000	4,000
Grants and others						
SUB-TOTAL PAHO/WHO	69,000	79,885	86,198	90,000	53,000	378,083

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	24,930	37,279	42,440	45,000	6,000	155,649
WHO-Reg.	44,070	42,606	43,758	45,000	47,000	222,434
WHO-MESA						
WHO-TA						
TOTAL	69,000	79,885	86,198	90,000	53,000	378,083

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer	1	1	1	1	
Entomologist					
Health Educator					
Sanitary Inspector	2	2	2	2	1
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	4	4	4	4	2

OBSERVATIONS

UNICEF and US/AID participate in this program.

Inability to attack problem areas adequately, for lack of adequate financing, produced a serious increase in malaria incidence in this program, as in its neighbors', during 1966. Financing has now been provided and the program will participate in the coordinated three-year intensive attack phase to be carried out during 1967-69 by the five Central American programs and Panama.

PAHO/WHO will provide the services of advisers, anti-malarial drugs for presumptive and radical-cure treatment and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Mexico

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	19,043,147	19,955,930	11,758,555	7,462,800	3,922,800	62,143,232
GOVT. AND OTHER SOURCES	18,900,000	19,800,000	11,600,000	7,300,000	3,754,000	61,354,000
PAHO/WHO PORTION						
Personnel costs and travel	102,497	115,280	117,905	123,000	129,000	587,682
Supplies and equipment	37,000	37,000	37,000	37,000	37,000	185,000
Fellowships	2,800	2,800	2,800	2,800	2,800	14,000
Grants and others	850	850	850			2,550
SUB-TOTAL PAHO/WHO	143,147	155,930	158,555	162,800	168,800	789,232

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				80,800	83,800	164,600
PAHO-SMF	75,005	78,304	79,900			233,209
WHO-Reg.						
WHO-MESA						
WHO-TA	68,142	77,626	78,655	82,000	85,000	391,423
TOTAL	143,147	155,930	158,555	162,800	168,800	789,232

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	3	3	3	3	3
Sanitary Engineer	1	1	1	1	1
Entomologist					
Health Educator					
Sanitary Inspector	2	2	2	2	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	6	6	6	6	6

OBSERVATIONS

Progress in this program has been interrupted by inadequate financing, and the campaign has been slowly losing ground. Various pilot projects are under way or planned (see Mexico-0201). A 6-year plan designed to eliminate the low-level persistent transmission which exists in considerable areas, as well as the high-incidence problem area in Chiapas state, is still awaiting financing.

PAHO/WHO will provide the services of advisers, anti-malarial drugs, fellowships and a small amount for common services.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Mexico - 0201

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	400,000	400,000				800,000
GOVT. AND OTHER SOURCES	250,000	250,000				500,000
PAHO/WHO PORTION						
Personnel costs and travel						
Supplies and equipment						
Fellowships						
Grants and others	150,000	150,000				300,000
SUB-TOTAL PAHO/WHO	150,000	150,000				300,000

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF						
WHO-Reg.						
WHO-MESA	150,000	150,000				300,000
WHO-TA						
TOTAL	150,000	150,000				300,000

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL					

OBSERVATIONS

This project supports pilot projects which are investigating the efficacy of various types of attack measures in eliminating the low-level persistent transmission existing in various parts of the Mexican malarious area. The Plan of Individual Responsibility in Limited Areas (PRIAL) has been functioning satisfactorily with good results. A trial of quarterly cycles of HCH house-spray, with thorough evaluation by active and passive case-detection and entomological evaluation in selected localities, measured against a DDT control area, will be initiated in 1967 in an area of the Costa Chica of the state of Guerrero.

WHO/MESA will provide a grant to aid in the financing of this trial.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Nicaragua

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	1,591,088	2,478,523	1,507,111	1,492,400	1,456,400	8,525,522
GOVT. AND OTHER SOURCES	1,455,000	2,335,000	1,360,000	1,360,000	1,360,000	7,870,000
PAHO/WHO PORTION						
Personnel costs and travel	121,288	130,123	134,711	120,000	84,000	590,122
Supplies and equipment	11,000	11,000	11,000	11,000	11,000	55,000
Fellowships	3,800	2,400	1,400	1,400	1,400	10,400
Grants and others						
SUB-TOTAL PAHO/WHO	136,088	143,523	147,111	132,400	96,400	655,522

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	61,188	59,119	62,695	62,400	31,400	276,802
WHO-Reg.	74,900	84,404	84,416	70,000	65,000	378,720
WHO-MESA						
WHO-TA						
TOTAL	136,088	143,523	147,111	132,400	96,400	655,522

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	2
Sanitary Engineer	1	1	1	1	
Entomologist	1	1	1		
Health Educator					
Sanitary Inspector	3	3	3	3	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	7	7	7	6	4

OBSERVATIONS

UNICEF and US/AID participate in this program.

The existence of very grave problems of double vector resistance and irritability toward DDT have caused serious financial difficulties in this program, which have now finally been resolved, permitting initiation of a technically-adequate attack as part of the coordinated three-year attack phase to be carried out by the Central American countries and Panama during 1967-69. Incidence at the end of 1966 was at a high level.

PAHO/WHO will provide the services of advisers, anti-malarial drugs for presumptive and radical-cure treatment and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Panama

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	970,598	1,455,168	1,488,888	1,255,400	1,220,400	6,390,454
GOVT. AND OTHER SOURCES	850,000	1,330,000	1,360,000	1,155,000	1,155,000	5,850,000
PAHO/WHO PORTION						
Personnel costs and travel	109,798	115,768	119,488	91,000	56,000	492,054
Supplies and equipment	8,000	8,000	8,000	8,000	8,000	40,000
Fellowships	2,800	1,400	1,400	1,400	1,400	8,400
Grants and others						
SUB-TOTAL PAHO/WHO	120,598	125,168	128,888	100,400	65,400	540,454

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	38,860	38,014	39,020	35,400	18,400	169,694
WHO-Reg.						
WHO-MESA	81,738	87,154	89,868	65,000	47,000	370,760
WHO-TA						
TOTAL	120,598	125,168	128,888	100,400	65,400	540,454

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer	1	1	1	1	
Entomologist	1	1	1		
Health Educator					
Sanitary Inspector	3	3	3	3	2
Entomologist Assistant or Entomology Aide					
Others	1	1	1		
TOTAL	7	7	7	5	3

OBSERVATIONS

UNICEF participates in this program.

This program has suffered from inadequate administration and technical direction and under-financing it has experienced increasing incidence during 1966. Arrangements are under way to provide a level of financing which will permit the program to form part of the coordinated intensive three-year attack phase being begun by the five Central American countries in 1967.

PAHO/WHO will provide the services of advisers, anti-malarial drugs and fellowships. US/AID is also expected to provide assistance.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Paraguay

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	542,108	850,672	1,080,640	1,107,500	1,155,500	4,736,420
GOVT. AND OTHER SOURCES	465,000	770,000	990,000	1,015,000	1,060,000	4,300,000
PAHO/WHO PORTION						
Personnel costs and travel	72,208	75,772	85,740	89,000	92,000	414,720
Supplies and equipment	3,500	3,500	3,500	3,500	3,500	17,500
Fellowships	1,400	1,400	1,400			4,200
Grants and others						
SUB-TOTAL PAHO/WHO	77,108	80,672	90,640	92,500	95,500	436,420

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.			90,640	92,500	95,500	278,640
PAHO-SMF	77,108	80,672				157,780
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	77,108	80,672	90,640	92,500	95,500	436,420

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer	1	1	1	1	0
Entomologist					
Health Educator					
Sanitary Inspector	3	3	3	3	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	5	5	5	5	3

OBSERVATIONS

A serious epidemic occurred during 1966 in this program, which has been in preparatory phase since attack operations were broken off in 1961. Incidence rose to alarming levels, centering in the colonization area of Caaguazú, Alto Paraná. Negotiations are in process to provide adequate financing for a renewed attack phase, but it is not expected that this can be initiated until early 1968.

PAHO will provide the services of advisers, anti-malarial drugs and fellowships. UNICEF will participate when attack phase is begun.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Peru

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	1,357,662	1,421,331	1,364,874	1,350,000	1,337,000	6,830,867
GOVT. AND OTHER SOURCES	1,240,000	1,300,000	1,240,000	1,240,000	1,240,000	6,260,000
PAHO/WHO PORTION						
Personnel costs and travel	97,762	101,431	104,974	95,000	82,000	481,167
Supplies and equipment	15,000	15,000	15,000	15,000	15,000	75,000
Fellowships	4,900	4,900	4,900			14,700
Grants and others						
SUB-TOTAL PAHO/WHO	117,662	121,331	124,874	110,000	97,000	570,867

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.					97,000	97,000
PAHO-SMF	117,662	121,331	124,874	110,000		473,867
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	117,662	121,331	124,874	110,000	97,000	570,867

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer	1	1	1	1	1
Entomologist					
Health Educator					
Sanitary Inspector	4	4	4	3	2
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	6	6	6	5	4

OBSERVATIONS

UNICEF participates in this program.

Progress was made during 1966 in the elimination of the scattered outbreaks which occurred during 1965. Attack operations continued in the Amazon regions. The southern coastal areas, which had been in consolidation phase for some years, were placed in maintenance phase and the responsibility for their surveillance relinquished to the general health services, with the support of the NMES. Seminars are being held with personnel of health areas in the remaining coastal areas with a view to the re-classification of these areas as well to maintenance phase in the near future.

PAHO provides the services of advisers, anti-malarial drugs and fellowships.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
British Honduras

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	103,169	105,607	106,110	77,500	78,500	470,886
GOVT. AND OTHER SOURCES	90,000	90,000	90,000	60,000	60,000	390,000
PAHO/WHO PORTION						
Personnel costs and travel	11,269	13,607	14,110	15,500	16,500	70,986
Supplies and equipment	500	2,000	2,000	2,000	2,000	8,500
Fellowships	1,400					1,400
Grants and others						
SUB-TOTAL PAHO/WHO	13,169	15,607	16,110	17,500	18,500	80,886

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				17,500	18,500	36,000
PAHO-SMF	13,169	15,607	16,110			44,886
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	13,169	15,607	16,110	17,500	18,500	80,886

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector	1	1	1	1	1
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	1	1	1	1	1

OBSERVATIONS

UNICEF participates in this program.

The outbreak of P.falciparum which occurred in 1965 in the southern district of Toledo has continued to produce some cases and P.vivax cases increased in foci in the north; four districts have therefore been replaced under attack measures, including DDT spraying on semi-annual cycles and collective treatment of the population in selected localities.

PAHO will provide the services of a sanitary inspector, anti-malarial drugs and a fellowship.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

French Guiana

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	145,000	145,000	145,000	145,000	145,000	725,000
GOVT. AND OTHER SOURCES	144,000	144,000	144,000	144,000	144,000	720,000
PAHO/WHO PORTION						
Personnel costs and travel						
Supplies and equipment	1,000	1,000	1,000	1,000	1,000	5,000
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	1,000	1,000	1,000	1,000	1,000	5,000

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				1,000	1,000	2,000
PAHO-SMF	1,000	1,000	1,000			3,000
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	1,000	1,000	1,000	1,000	1,000	5,000

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL					

OBSERVATIONS

Attack measures continue in some areas, while others have been classified to consolidation phase. The number of cases confirmed during 1966 was very low.

PAHO provides anti-malarial drugs for the treatment of cases.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Surinam

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	438,321	429,140	433,654	409,000	412,300	2,122,415
GOVT. AND OTHER SOURCES	295,000	295,000	295,000	295,000	295,000	1,475,000
PAHO/WHO PORTION						
Personnel costs and travel	113,421	104,240	108,754	88,300	91,600	506,315
Supplies and equipment	25,000	25,000	25,000	25,000	25,000	125,000
Fellowships	4,200	4,200	4,200			12,600
Grants and others	700	700	700	700	700	3,500
SUB-TOTAL PAHO/WHO	143,321	134,140	138,654	114,000	117,300	647,415

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	143,321	134,140	138,654	114,000	117,300	647,415
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	143,321	134,140	138,654	114,000	117,300	647,415

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer					
Entomologist					
Health Educator	1	1	1		
Sanitary Inspector	3	3	3	3	3
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	5	5	5	4	4

OBSERVATIONS

UNICEF participates in this program.

Consolidation areas continued free of transmission. The medicated salt program initiated along the Upper Surinam and Tapanahony Rivers was extended in coverage and is apparently succeeding. Both the development and the evaluation of the results of this program are made difficult by the hostility of the population, which is being gradually overcome by careful attention on the part of the program to the mores of the inhabitants.

PAHO provides the services of advisers (of whom the chief serves as director of the program), anti-malarial drugs, fellowships and a small sum for common services.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Project AMRO-0200
Malaria Technical Advisory Services

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	125,582	136,023	138,368	141,900	145,400	687,273
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	113,782	123,723	126,068	129,600	133,100	626,273
Supplies and equipment	10,500	11,000	11,000	11,000	11,000	54,500
Fellowships						
Grants and others	1,300	1,300	1,300	1,300	1,300	6,500
SUB-TOTAL PAHO/WHO	125,582	136,023	138,368	141,900	145,400	687,273

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	101,175	108,011	111,943	114,900	117,400	553,429
WHO-Reg.						
WHO-MESA	24,407	28,012	26,425	27,000	28,000	133,844
WHO-TA						
TOTAL	125,582	136,023	138,368	141,900	145,400	687,273

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer					
Entomologist	1	1	1	1	1
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others	3	3	3	3	3
TOTAL	5	5	5	5	5

OBSERVATIONS

This project provides technical advice on subjects of common concern to malaria eradication programs for which permanently-assigned advisers at the country level are not required. At present, one medical officer, two parasitologists and an entomologist, supported by one clerk-typist are included in the project.

The project also covers general technical guidance, such as meetings of advisory groups.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Project AMRO-0203
Malaria Technical Advisory Services (Zone III)

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	126,043	118,407	120,717	103,000	107,000	575,167
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	124,043	118,407	120,717	101,000	105,000	569,167
Supplies and equipment	2,000			2,000	2,000	6,000
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	126,043	118,407	120,717	103,000	107,000	575,167

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF						
WHO-Reg.						
WHO-MESA	126,043	118,407	120,717	103,000	107,000	575,167
WHO-TA						
TOTAL	126,043	118,407	120,717	103,000	107,000	575,167

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	2
Sanitary Engineer					
Entomologist					
Health Educator	1	1	1		
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others	3	3	3	3	3
TOTAL	6	6	6	5	5

OBSERVATIONS

This project provides general technical guidance to the programs of Zone III and supervision of malaria personnel assigned to country projects. The intensified attack phase to be carried out in 1967-69 by the programs in this Zone require a strong Zone team, which is composed of two malariologists, a health educator, an administrative-methods officer and supporting clerical and drafting personnel.

The chief of the project also functions as secretary of the Working Group on Coordination established by the Ministers of Health of Central America and Panama to coordinate the eradication campaigns in these countries.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Project AMRO-0204
Malaria Technical Advisory Services (Zone IV)

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	24,711	23,420	26,129	27,200	28,300	129,760
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	24,711	23,420	26,129	27,200	28,300	129,760
Supplies and equipment						
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	24,711	23,420	26,129	27,200	28,300	129,760

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.	24,711	23,420	26,129	27,200	28,300	129,760
PAHO-SMF						
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	24,711	23,420	26,129	27,200	28,300	129,760

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	1	1	1	1	1
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	1	1	1	1	1

OBSERVATIONS

This project serves to provide technical advice to the malaria eradication programs in the Zone and supervision of country-project personnel in malaria eradication.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Project AMRO-0209
Insecticide Testing Team

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	168,157	184,958	184,461	187,400	190,400	915,376
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	67,757	84,558	84,061	87,000	90,000	413,376
Supplies and equipment	40,000	40,000	40,000	40,000	40,000	200,000
Fellowships						
Grants and others	60,400	60,400	60,400	60,400	60,400	302,000
SUB-TOTAL PAHO/WHO	168,157	184,958	184,461	187,400	190,400	915,376

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF						
WHO-Reg.						
WHO-MESA	168,157	184,958	184,461	187,400	190,400	915,376
WHO-TA						
TOTAL	168,157	184,958	184,461	187,400	190,400	915,376

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist	2	2	2	2	2
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide	2	2	2	2	2
Others					
TOTAL	4	4	4	4	4

OBSERVATIONS

The Team is engaged in the testing and evaluation of new candidate insecticides and larvicides. Tests of OMS-33 (Baygon) have progressed to the stage of village trials, now completing a full year of quarterly cycles. Other, newer insecticides are entering testing. This project is fully integrated into the WHO scheme of insecticide testing.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Project AMRO-0210
Malaria Eradication Epidemiology Team

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	68,330	82,495	85,429	89,600	93,600	419,454
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	65,730	79,895	82,829	87,000	91,000	406,454
Supplies and equipment	2,600	2,600	2,600	2,600	2,600	13,000
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	68,330	82,495	85,429	89,600	93,600	419,454

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF						
WHO-Reg.						
WHO-MESA	68,330	82,495	85,429	89,600	93,600	419,454
WHO-TA						
TOTAL	68,330	82,495	85,429	89,600	93,600	419,454

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	2
Sanitary Engineer					
Entomologist	2	2	2	2	2
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL	4	4	4	4	4

OBSERVATIONS

The project is established to provide technical orientation and to assist in the evaluation of pilot projects of various new techniques for eliminating residual transmission in problem areas. Currently, assistance is being rendered in these respects to the Pilot Project for Integrated Attack and to a project utilizing house-spraying with BHC in Mexico.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Project AMRO-0211

Seminar on Expansion of Rural Health Services in connection with Malaria Eradication Programs

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	96,208			96,000	96,000	288,208
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel						
Supplies and equipment						
Seminar	16,208			16,000	16,000	48,208
Participants	80,000			80,000	80,000	240,000
SUB-TOTAL PAHO/WHO	96,208			96,000	96,000	288,208

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				96,000	96,000	192,000
PAHO-SMF	96,208					96,208
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	96,208			96,000	96,000	288,208

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL					

OBSERVATIONS

This project covers a projected seminar for the purpose of following up the results of the two general seminars held in 1964 and 1965 to bring together general public health personnel and malaria service personnel to work out methods to increase the participation of local health services in appropriate areas of eradication operations. Progress in increasing participation and in furthering the provision of rural coverage by general health services will be assessed and accelerated in a future seminar.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS

Project AMRO-0214
Advance Course in Malaria Epidemiology

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	20,000	20,000	20,000	20,000		80,000
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel						
Supplies and equipment						
Fellowships	14,000	14,000	14,000	14,000		56,000
Grants and others	6,000	6,000	6,000	6,000		24,000
SUB-TOTAL PAHO/WHO	20,000	20,000	20,000	20,000		80,000

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	20,000	20,000	20,000	20,000		80,000
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	20,000	20,000	20,000	20,000		80,000

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL					

OBSERVATIONS

Courses in advanced epidemiology of malaria, with particular reference to epidemiological problems in problem areas and in areas of disappearing malaria, will be held for national malaria eradication service personnel. Fellowships for participants will be provided, in addition to basic course costs.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Project AMRO-0216
Research in Epidemiology of Malaria Eradication in Problem Areas

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	108,000	108,000	57,000	55,000	55,000	383,000
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	68,000	68,000	41,400	40,000	40,000	257,400
Supplies and equipment						
Fellowships						
Grants and others	40,000	40,000	15,600	15,000	15,000	125,600
SUB-TOTAL PAHO/WHO	108,000	108,000	57,000	55,000	55,000	383,000

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.				55,000	55,000	110,000
PAHO-SMF	108,000	108,000	57,000			273,000
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	108,000	108,000	57,000	55,000	55,000	383,000

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL					

OBSERVATIONS

This project envisages research into methods of determining the presence and degree of resistance of *P. falciparum* to common anti-malarial drugs, particularly field methods for such determinations and their utilization in delimiting areas in which resistance is present. Field trials of radical-cure treatments for resistant strains are also covered.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Project AMRO-0217
Field Investigations of Mass Drug Treatment

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	60,000	60,000	61,000	61,000		242,000
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	17,000	17,000	18,000	18,000		70,000
Supplies and equipment						
Fellowships						
Grants and others	43,000	43,000	43,000	43,000		172,000
SUB-TOTAL PAHO/WHO	60,000	60,000	61,000	61,000		242,000

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.						
PAHO-SMF	60,000	60,000	61,000	61,000		242,000
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	60,000	60,000	61,000	61,000		242,000

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others					
TOTAL					

OBSERVATIONS

The trial initiated by the Gorgas Memorial Laboratory in Darien Province of Panama utilizing primaquine and pyrimethamine in two-week cycles in a collective treatment program is continuing. Incidence has been drastically lowered.

A trial of the repository drug, Camolar, which is expected to give protection against malaria infection for about six months, began during 1967 in an area in Guatemala, with technical guidance provided by PASB.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Project AMRO-0218
General Health Services and Malaria Eradication

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	46,878	61,729	64,621	67,500	70,500	311,228
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	46,378	61,229	64,121	67,000	70,000	308,728
Supplies and equipment	500	500	500	500	500	2,500
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	46,878	61,729	64,621	67,500	70,500	311,228

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.					70,500	70,500
PAHO-SMF	46,878	61,729	64,621	67,500		240,728
WHO-Reg.						
WHO-MESA						
WHO-TA						
TOTAL	46,878	61,729	64,621	67,500	70,500	311,228

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	2	2	2	2	2
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others	1	1	1	1	1
TOTAL	3	3	3	3	3

OBSERVATIONS

Advice and assistance to governments in increasing the participation of the general health services in appropriate activities of malaria eradication programs and in extending the coverage of local health services to rural areas in preparation for maintenance-phase activities is provided under this project by two medical officers, supported by a secretary. Development of operations in compliance with the recommendations of the Seminars on the role of the general health services in malaria eradication which were held under AMRO-0211 is fostered through training activities and other.

ESTIMATED REQUIREMENTS FOR MALARIA ERADICATION IN THE AMERICAS
Malaria Eradication Branch

	1967	1968	1969	1970	1971	TOTAL
TOTAL COST	255,824	268,797	297,510	311,000	323,000	1,456,131
GOVT. AND OTHER SOURCES						
PAHO/WHO PORTION						
Personnel costs and travel	255,824	268,797	297,510	311,000	323,000	1,456,131
Supplies and equipment						
Fellowships						
Grants and others						
SUB-TOTAL PAHO/WHO	255,824	268,797	297,510	311,000	323,000	1,456,131

SOURCES OF PAHO/WHO FUNDING

SOURCE	1967	1968	1969	1970	1971	TOTAL
PAHO-Reg.	80,878	82,431	93,107	139,000	143,000	538,216
PAHO-SMF	35,056	38,973	40,404			114,433
WHO-Reg.	139,890	147,393	163,999	172,000	180,000	803,282
WHO-MESA						
WHO-TA						
TOTAL	255,824	268,797	297,510	311,000	323,000	1,456,131

PAHO/WHO PERSONNEL

CATEGORY	1967	1968	1969	1970	1971
Medical Officer	4	4	4	4	4
Sanitary Engineer	2	2	2	2	2
Entomologist					
Health Educator					
Sanitary Inspector					
Entomologist Assistant or Entomology Aide					
Others	10	11	11	11	11
TOTAL	16	17	17	17	17

OBSERVATIONS

Headquarters malaria eradication personnel provide coordination among the many eradication programs in the hemisphere and direct, advise and supervise international malaria eradication personnel in the field. Branch personnel also perform evaluations of the progress of national campaigns, advise on special problems which arise and give technical guidance in field trials and other investigative activities.