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REPORT ON THE STATUS OF MALARIA ERADICATION IN THE AMERICAS, AND ESTIMATED REQUIREMENTS FOR THE SPECIAL MALARIA FUND OF THE PAN AMERICAN HEALTH ORGANIZATION

B. ESTIMATED REQUIREMENTS FOR THE SPECIAL MALARIA FUND OF THE PAN AMERICAN HEALTH ORGANIZATION

The XIII Meeting of the Directing Council of the Pan American Health Organization, held in Washington in October 1961, approved Resolution XXVI, with reference to the "Estimated Requirements for the Special Malaria Fund of the Pan American Health Organization". This Resolution reads:

"The Directing Council,

Having examined Document CD13/20, 'Estimated Requirements for the PAHO Special Malaria Fund'; and

Having reviewed the requirements for individual program activities being developed or planned by the Pan American Health Organization,

RESOLVES:

1. To take note of the estimates for future requirements for the PAHO Special Malaria Fund (Document CD13/20).
2. To request the Director to prepare annual revisions of these estimates for study by the Directing Council.
3. To urge Member Governments to support the PAHO Special Malaria Fund so that eradication activities may proceed as rapidly as possible".

In November 1960 a document entitled "Estimated Requirements for the PAHO Special Malaria Fund" was prepared as an aid in forecasting the future program and budget requirements. The document analyzed the progress of malaria eradication on each program receiving assistance

from the Organization and forecast the manner in which such assistance was planned for the future. Revisions 1 and 2 were presented in 1961 and 1963 respectively.

The Director has the honor now to present herewith "Estimated Requirements for the PAHO Special Malaria Fund, Revision 3." In the attached tables there is shown, for each program in which the Pan American Health Organization is participating, the estimated requirements for personnel, supplies and equipment, fellowships and/or grants and other expenditures. Regional activities are also listed. The standard method of budget estimates for PAHO has been used. A table of personnel is included for each project to indicate the distribution of staff during the period. A brief narrative of the status of each project is given as well as an indication of the present plans of the organization for future activity.

Participation by UNICEF and AID in the projects is indicated where applicable. Estimates of costs of programs in which the Organization is not participating directly -Venezuela and Trinidad and Tobago- are not included. These revised estimates have been prepared in June 1964 and are based upon information regarding program development available at that time and upon the best judgement as to the duration of activities in each individual case. Past experience has shown, particularly in Central America, that the imponderables require a frequent assessment and a corresponding re-estimate of future requirements. In view of the problems which have arisen, this estimate should be regarded as the probable minimum of requirements based upon the best evidence available at the time of their compilation. All figures are shown in U.S. dollars.

As has been pointed out in previous documents there are several problems confronting malaria eradication in the Americas at the present time. During the past year no new problems have arisen, but the problems of earlier years continue in many places. The problem of administration, including organization, staffing and finance, is still a source of difficulty in some programs but improvement has been noted in others.

The results of experimental work and pilot studies during the past year have pointed the way toward solution of source of the technical problems. The limited use of mass drug treatment in some countries in Central America has succeeded in stopping transmission in those areas where it was properly employed and the use of Malathion has indicated that this insecticide will be of value in some places.

The change, made in one country, to DDT applied twice a year instead of Dieldrin applied annually has produced good results and the inter-cycle treatment of new houses and disturbed wall surfaces is being done in some places to improve protection.

In some areas it is now necessary to use various combinations of the methods and means available to achieve eradication. Plans have been proposed for this but implementation has been slow because of the increased costs and the difficulty of financing. The possibility of loan financing is presently being studied as a means of overcoming this difficulty.

A comparison with "Revision 2" shows that, in the period 1964-1967, there is a decrease of \$4.7 million in the estimate, made up of a projected decrease of \$1.9 million in local costs and imported supplies and a reduction of \$2.8 million in PAHO costs occasioned primarily by the elimination of a proposed project of special assistance in problem areas.

The estimated requirements for PAHO expenditures are detailed in the tables. In general it is felt that advisory services in spraying operations and entomology may be withdrawn when the last areas of a country program enter into the consolidation phase whereas the advisory services in epidemiology and evaluation should be continued through that phase of the program.

Finally, costs are given for the inter-country projects conducted by PAHO. These consist mainly of research activities and technical support for and supervision of personnel engaged in country program activities. The cost estimated refer only to Special Malaria Fund requirements. Those costs to PAHO and WHO which are borne by the Regular Budgets or by UN/TA funds are not shown.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Summary

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST^{1/}	49,668,083	50,604,806	46,321,091	35,121,946	23,070,308	204,786,234
GOVT. AND OTHER SOURCES^{1/}	47,116,800	48,165,000	44,129,000	33,273,000	21,643,000	194,326,800
PAHO PORTION:						
Personnel costs and travel	2,115,339	2,024,105	1,855,113	1,616,395	1,273,377	8,884,329
Supplies and equipment	253,045	267,045	258,247	179,220	100,600	1,058,157
Fellowships	34,100	37,400	22,100	1,700	1,700	97,000
Grants and others	148,799	111,256	56,631	51,631	51,631	419,948
SUB-TOTAL PAHO	2,551,283	2,439,806	2,192,091	1,848,946	1,427,308	10,459,434

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	36	34	32	31	27
Sanitary Engineer	17	14	12	10	6
Entomologist	11	10	9	8	6
Health Educator	3	3	3	2	2
Sanitary Inspector	54	53	44	32	21
Assistant entomologist or Entomological aide	9	7	7	6	6
Others	15	12	10	10	8
TOTAL	145	133	117	99	76

OBSERVATIONS:

^{1/} Estimated costs for Venezuela and Trinidad and Tobago not included.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Argentina

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,099,949	1,164,564	1,231,139	1,227,274	635,909	5,358,835
GOVT. AND OTHER SOURCES	1,064,000	1,128,000	1,196,000	1,192,000	600,000	5,180,000
PAHO PORTION:						
Personnel costs and travel	29,049	29,664	31,639	32,274	32,909	155,535
Supplies and equipment	3,500	3,500	3,500	3,000	3,000	16,500
Fellowships	3,400	3,400	-	-	-	6,800
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	35,949	36,564	35,139	35,274	35,909	178,835

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	1	1	1	1	1
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	2	2	2	2	2

OBSERVATIONS:

UNICEF collaborates in the project.

The attack phase was begun in 1959 and it is expected to end in 1965 except in the areas of Chaco and Formosa which are still not under total coverage. The consolidation phase is expected to be completed in 1968 except in these areas.

In addition to advisory personnel, PAHO provides anti-malarial drugs for presumptive treatment of fever cases and for radical treatment of malaria cases. Fellowships are provided to strengthen epidemiological evaluation services in preparation for the consolidation phase.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Bolivia

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	688,769	624,761	318,968	241,558	120,000	1,994,056
GOVT. AND OTHER SOURCES	622,000	557,000	265,000	220,000	120,000	1,784,000
PAHO PORTION:						
Personnel costs and travel	61,769	62,761	48,968	19,558	-	193,056
Supplies and equipment	5,000	5,000	5,000	2,000	-	17,000
Fellowships	-	-	-	-	-	-
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	66,769	67,761	53,968	21,558	-	210,056

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	3	3	2	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	4	4	3	1	-

OBSERVATIONS:

UNICEF and AID participate in this project.

It is expected that all areas except certain border regions will be in consolidation in 1965. Attack phase activities will have to be continued in these border regions until work in neighboring countries permits the withdrawal of spraying. Except in these areas consolidation should terminate in 1967.

Besides personnel PAHO provides antimalarial drugs for treatment of cases and the elimination of residual foci during consolidation.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Brazil (São Paulo)

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,158,229	1,044,501	832,993	319,820	-	3,355,543
GOVT. AND OTHER SOURCES	1,119,000	1,012,000	800,000	300,000	-	3,231,000
PAHO PORTION:						
Personnel costs and travel	30,829	32,351	32,873	19,700	-	115,753
Supplies and equipment	5,000	150	120	120	-	5,390
Fellowships	3,400	-	-	-	-	3,400
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	39,229	32,501	32,993	19,820	-	124,543

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	1	1	1	-
Sanitary Engineer	1	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	1	1	1	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	2	2	2	1	-

OBSERVATIONS:

AID participates in this program.

The attack phase, which began in 1960, is proceeding well and is expected to end in many areas in 1964. Some areas are already in consolidation and the consolidation phase should be completed in 1967.

PAHO supplies drugs for treatment of cases and elimination of residual foci during the consolidation phase. Fellowships are also provided.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Brazil (excl. São Paulo)

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	13,298,186	14,615,232	14,463,908	13,898,973	11,969,738	68,246,037
GOVT. AND OTHER SOURCES	13,033,000	14,325,000	14,160,000	13,613,000	11,700,000	66,831,000
PAHO PORTION:						
Personnel costs and travel	206,586	216,832	230,508	234,273	238,038	1,126,237
Supplies and equipment	50,000	70,000	70,000	50,000	30,000	270,000
Fellowships	8,600	3,400	3,400	1,700	1,700	18,800
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	265,186	290,232	303,908	285,973	269,738	1,415,037

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	5	5	5	5	5
Sanitary Engineer	3	3	3	3	3
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	3	3	3	3	3
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	2	2	2	2	2
TOTAL	13	13	13	13	13

OBSERVATIONS:

AID participates in this project.

The program in Brazil is being implemented by stages in major geographical areas and activities have been expanded during the last year. Special attention has been given to border areas. Consolidation phase activities should begin in some areas in 1965 but this will depend on the extension of total coverage in other areas.

In addition to personnel PAHO provides drugs for presumptive treatment and fellowships.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Colombia
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	3,521,090	3,572,908	2,517,136	1,756,890	1,343,627	12,711,651
GOVT. AND OTHER SOURCES	3,352,000	3,404,000	2,374,000	1,680,000	1,290,000	12,100,000
PAHO PORTION:						
Personnel costs and travel	157,990	147,508	121,736	61,890	48,627	537,751
Supplies and equipment	6,000	18,000	18,000	15,000	5,000	62,000
Fellowships	5,100	3,400	3,400	-	-	11,900
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	169,090	168,908	143,136	76,890	53,627	611,651

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	1	1	1	-	-
Entomologist	1	1	1	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	6	6	4	3	2
Assistant entomologist or Entomological aide	1	1	1	-	-
Others	1	-	-	-	-
TOTAL	11	10	8	4	3

OBSERVATIONS:

UNICEF participates in this project.

The attack phase was begun in 1958 and 5.3 million people are now in consolidation. Total coverage is still not being carried out among some 250,000 people. It will be necessary to prolong attack phase activities in areas adjacent to this population. In addition it is expected that special measures will be required in an area whose population is 500,000.

Antimalarial drugs are being provided for treatment of cases and elimination of residual foci. Fellowships are intended to strengthen the project.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Costa Rica
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	433,363	380,666	271,173	160,000	75,000	1,320,202
GOVT. AND OTHER SOURCES	342,000	314,000	234,000	160,000	75,000	1,125,000
PAHO PORTION:						
Personnel costs and travel	59,789	58,666	29,173	-	-	147,628
Supplies and equipment	15,000	8,000	8,000	-	-	31,000
Fellowships	1,700	-	-	-	-	1,700
Grants and others	14,874	-	-	-	-	14,874
SUB-TOTAL PAHO	91,363	66,666	37,173	-	-	195,202

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	3	3	1	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	4	4	2	-	-

OBSERVATIONS:

UNICEF participates in this project.

The attack phase began in 1957 and excellent results have been obtained in most of the country. Some transmission continues in limited areas along the Pacific Coast. The population involved is some 17,000.

Antimalarial drugs are provided for the treatment of cases and for the elimination of residual foci during the consolidation phase. A grant is provided in 1964 to support operational research on special measures along the Pacific Coast.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Dominican Republic

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,710,709	1,714,177	1,416,145	1,166,413	466,032	6,473,476
GOVT. AND OTHER SOURCES	1,600,000	1,600,000	1,300,000	1,050,000	400,000	5,950,000
PAHO PORTION:						
Personnel costs and travel	107,209	109,177	111,145	113,113	64,232	504,876
Supplies and equipment	3,500	3,000	3,000	3,000	1,500	14,000
Fellowships	-	1,700	1,700	-	-	3,400
Grants and others	-	300	300	300	300	1,200
SUB-TOTAL PAHO	110,709	114,177	116,145	116,413	66,032	523,476

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	2	2	2	2	1
Sanitary Engineer	1	1	1	1	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	3	3	3	3	2
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	1	1	1	1	1
TOTAL	7	7	7	7	4

OBSERVATIONS:

UNICEF participates in the project.

The attack phase was begun in 1958 but technical problems and financial difficulties limited the effectiveness until 1962. The project has been reorganized and work is proceeding in an orderly manner.

PAHO provides drugs for the treatment of cases and fellowships for the training of epidemiological personnel.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Ecuador
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,445,325	1,285,002	983,123	888,080	600,000	5,201,530
GOVT. AND OTHER SOURCES	1,341,000	1,185,000	930,000	850,000	600,000	4,906,000
PAHO PORTION:						
Personnel costs and travel	96,625	83,302	43,123	33,080	-	256,130
Supplies and equipment	6,000	15,000	10,000	5,000	-	36,000
Fellowships	1,700	1,700	-	-	-	3,400
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	104,325	100,002	53,123	38,080	-	295,530

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	-
Sanitary Engineer	1	1	-	-	-
Entomologist	1	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	4	4	2	1	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	7	6	3	2	-

OBSERVATIONS:

AID and UNICEF participate in the project.

The attack phase was begun in 1957 but was not fully effective until after a reorganization in 1961. By 1965 it should be possible to put most of the population into consolidation. The rapid growth of newly-opened areas may require special measures in a population estimated at 100,000, but all areas should be in consolidation in 1967.

Antimalarial drugs and fellowships are provided by PAHO. One medical officer is provided from WHO/TA funds.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

El Salvador

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,124,778	1,089,465	620,619	653,137	464,182	3,952,181
GOVT. AND OTHER SOURCES	978,000	937,000	463,000	500,000	312,000	3,190,000
PAHO PORTION:						
Personnel costs and travel	135,078	137,405	141,092	143,137	145,182	701,894
Supplies and equipment	10,000	13,360	14,827	10,000	7,000	55,187
Fellowships	1,700	1,700	1,700	-	-	5,100
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	146,778	152,465	157,619	153,137	152,182	762,181

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	2	2	2	2	2
Sanitary Engineer	1	1	1	1	1
Entomologist	1	1	1	1	1
Health Educator	1	1	1	1	1
Sanitary Inspector	3	3	3	3	3
Assistant entomologist or Entomological aide	1	1	1	1	1
Others	-	-	-	-	-
TOTAL	9	9	9	9	9

OBSERVATIONS:

AID and UNICEF participate in this project.

The attack phase began in 1956 but the appearance of resistance to Dieldrin and DDT have hampered efforts in some parts of the country, particularly in those areas of the coastal plain where insecticides are used extensively against cotton pests. Transmission has been halted, however, in most parts of the country outside the area of resistance, and transmission has been reduced considerably even within this area. Limited scale trials of mass drug treatment have shown promising results in the problem area.

In addition to personnel PAHO provides drugs for treatment of cases and fellowships for the training of national personnel in El Salvador.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Guatemala

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,545,553	2,136,238	1,430,396	948,234	448,534	6,508,955
GOVT. AND OTHER SOURCES	1,442,000	2,014,000	1,305,000	825,000	375,000	5,961,000
PAHO PORTION:						
Personnel costs and travel	91,853	110,238	113,396	115,234	69,534	500,255
Supplies and equipment	10,000	12,000	12,000	8,000	4,000	46,000
Fellowships	1,700	-	-	-	-	1,700
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	103,553	122,238	125,396	123,234	73,534	547,955

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
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
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	6	7	7	7	4

OBSERVATIONS:

AID and UNICEF participate in this project.

The attack phase began in 1956 and succeeded in interrupting transmission in most areas, but three problem areas presenting insecticide resistance remain at the present time. The one large problem area is located in the Pacific coastal region and is characterized by extensive cotton growing, agricultural development, intensive migration, and rudimentary housing. Because of the movement of the labor force the effect of this problem is felt in many highland areas as well.

In addition to personnel PAHO provides drugs for treatment of cases and a fellowship for the training of national personnel.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Haiti
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	2,023,702	2,054,035	1,447,412	1,061,804	579,939	7,166,892
GOVT. AND OTHER SOURCES	1,918,000	1,960,000	1,350,000	990,000	550,000	6,768,000
PAHO PORTION:						
Personnel costs and travel	90,202	74,335	75,712	56,804	22,939	319,992
Supplies and equipment	5,500	18,000	20,000	15,000	7,000	65,500
Fellowships	-	1,700	1,700	-	-	3,400
Grants and others	10,000	-	-	-	-	10,000
SUB-TOTAL PAHO	105,702	94,035	97,412	71,804	29,939	398,892

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	2	1	1	1	1
Sanitary Engineer	1	1	1	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	3	3	3	2	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	6	5	5	3	1

OBSERVATIONS:

AID and UNICEF participate in this project.

The attack phase began in 1958 but was suspended after three months for lack of funds. In 1961 the project was re-organized under an agreement between the Government, AID, UNICEF and PAHO, which forms the basis for the present program.

In addition to personnel PAHO provides antimalarial drugs for the treatment of cases and fellowships for the strengthening of epidemiological evaluation services.

For a joint research activity, funds have been provided by PAHO during 1962/63/64.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Honduras

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	824,726	626,866	487,638	411,250	220,052	2,570,532
GOVT. AND OTHER SOURCES	743,000	575,000	435,000	390,000	200,000	2,343,000
PAHO PORTION:						
Personnel costs and travel	74,026	46,366	47,138	18,750	19,052	205,332
Supplies and equipment	6,000	5,500	5,500	2,500	1,000	20,500
Fellowships	1,700	-	-	-	-	1,700
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	81,726	51,866	52,638	21,250	20,052	227,532

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	1	-	-	-	-
Entomologist	1	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	2	2	2	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	5	3	3	1	1

OBSERVATIONS:

AID and UNICEF participate in this project.

The attack phase began in 1958 and by the end of 1963, 941,000 people had been placed in the consolidation phase. Extensive agrarian development is attracting rural colonizers into two departments in which there have been resulting problems of continued transmission. A further problem is the persistence of transmission in El Salvador from which many immigrants enter the country. This will require extension of the attack phase activities in border areas and areas of inter-country migration, until the problem in El Salvador is eliminated.

In addition to personnel PAHO provides antimalarial drugs for the treatment of cases and the elimination of residual foci transmission during the consolidation phase. One fellowship is provided in 1964.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Jamaica
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	283,150	-	-	-	-	283,150
GOVT. AND OTHER SOURCES	282,800	-	-	-	-	282,800
PAHO PORTION:						
Personnel costs and travel	-	-	-	-	-	-
Supplies and equipment	350	-	-	-	-	350
Fellowships	-	-	-	-	-	-
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	350	-	-	-	-	350

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	-	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	-	-	-	-	-

OBSERVATIONS:

UNICEF collaborates in this project.

The attack phase was begun in 1958 and by the end of 1963 the entire population had been placed in the consolidation phase.

PAHO provides only drugs for the treatment of positive cases in Jamaica.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Mexico
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	14,105,064	13,604,999	14,189,634	8,748,269	4,142,904	54,790,870
GOVT. AND OTHER SOURCES	14,045,000	13,544,000	14,128,000	8,696,000	4,100,000	54,513,000
PAHO PORTION:						
Personnel costs and travel	30,064	30,699	31,334	31,969	32,604	156,670
Supplies and equipment	30,000	30,000	30,000	20,000	10,000	120,000
Fellowships	-	-	-	-	-	-
Grants and others	-	300	300	300	300	1,200
SUB-TOTAL PAHO	60,604	60,999	61,634	52,269	42,904	277,870

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	1	1	1	1	1
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	2	2	2	2	2

OBSERVATIONS:

UNICEF collaborates in this project.

The attack phase began in 1957 and it succeeded in interrupting transmission in large parts of the country but transmission persists in problem areas principally located along the Pacific Coast. An expanded program involving combinations of appropriate attack measures is planned for these problem areas but its implementation is being limited by lack of adequate financing. Some of this work is being done, however, on a small scale.

In addition to advisory personnel provided under SMF there are two medical officers, a sanitary engineer and a sanitarian provided from WHO/TA funds. PAHO is providing, from SMF, drugs for the treatment of cases.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Nicaragua
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,368,395	1,704,733	1,641,281	293,524	438,447	6,076,380
GOVT. AND OTHER SOURCES	1,250,000	1,574,000	1,507,000	800,000	350,000	5,481,000
PAHO PORTION:						
Personnel costs and travel	112,395	116,533	122,581	116,524	85,447	553,480
Supplies and equipment	6,000	12,500	10,000	7,000	3,000	38,500
Fellowships	-	1,700	1,700	-	-	3,400
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	118,395	130,733	134,281	123,524	88,447	595,380

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
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
Assistant entomologist or Entomological aide	1	-	-	-	-
Others	-	-	-	-	-
TOTAL	8	7	7	7	5

OBSERVATIONS:

AID and UNICEF participate in this project.

The attack phase began at the end of 1957 but the appearance of resistance in 1958 forced a shift of insecticide in early 1959. By the end of 1963 more than 1/3 of the originally malarious population had been withdrawn from spraying and placed under consolidation phase. Serious technical problems exist in the Pacific side region with the continuing transmission in approximately 650,000 people. Supplementary measures including larviciding and mass drug administration will be required to deal with these problems.

In addition to personnel PAHO provides drugs for the treatment of cases and for the elimination of residual foci of transmission in consolidation areas. Fellowships were provided in 1965/66 for the strengthening of epidemiological evaluation services.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Panama

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,386,373	1,453,752	1,429,521	880,344	418,867	5,568,857
GOVT. AND OTHER SOURCES	1,290,000	1,350,000	1,328,000	780,000	320,000	5,068,000
PAHO PORTION:						
Personnel costs and travel	88,673	90,952	93,821	95,344	96,867	465,657
Supplies and equipment	6,000	6,000	6,000	5,000	2,000	25,000
Fellowships	1,700	6,800	1,700	-	-	10,200
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	96,373	103,752	101,521	100,344	98,867	500,857

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	1	1	1	1	1
Entomologist	1	1	1	1	1
Health Educator	-	-	-	-	-
Sanitary Inspector	3	3	3	3	3
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	6	6	6	6	6

OBSERVATIONS:

UNICEF participates in this project.

The attack phase began in 1957 but total coverage was not achieved because of deficiencies in organization and administration. The program, based on 12-month intervals of spraying did not permit complete protection. In 1962 the project was reorganized and began to use DDT in 6-month cycles but present budget support is not sufficient to assure total coverage and provide the epidemiological evaluation with the intensity required. However, some progress is being made in the interruption of transmission in many areas.

PAHO provides in addition to personnel, drugs for the treatment of cases and fellowships for the strengthening of professional services in the project.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Paraguay
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	975,189	1,057,236	1,089,603	585,642	343,507	4,051,677
GOVT. AND OTHER SOURCES	900,000	975,000	1,000,000	500,000	300,000	3,675,000
PAHO PORTION:						
Personnel costs and travel	69,989	74,136	81,003	82,142	40,507	347,777
Supplies and equipment	3,500	3,500	3,500	3,500	3,000	17,000
Fellowships	1,700	5,100	5,100	-	-	11,900
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	75,189	82,736	89,603	85,642	43,507	376,677

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	1	1	1	1	-
Entomologist	1	1	1	1	-
Health Educator	-	-	-	-	-
Sanitary Inspector	3	3	3	3	2
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	6	6	6	6	3

OBSERVATIONS:

The attack phase began in October 1957 with Dieldrin being sprayed at 12-month intervals. At the end of the first year it was found that malaria was present in other areas which were not being covered by spraying. During 1959 an evaluation was made and it was decided that Dieldrin (at a 12-month interval) was not capable of halting transmission. In addition it was considered necessary to extend the attack to new areas of low endemicity which were previously considered not malarious. The need was recognized therefore to extend spraying operations to the whole country at six-month intervals, but lack of financing and an adequate geographical reconnaissance caused the program to be placed again in the preparatory phase. The attack phase has been suspended since March 1961. The limited funds made available by the Government up to now were being used to maintain a network of case finding throughout the country and for geographical reconnaissance in the new areas to be included in the spraying operations. In addition to personnel PAHO provides drugs for the treatment of cases and fellowships to strengthen the professional services within the project.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Peru
Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	1,421,142	1,340,547	1,116,013	600,428	259,902	4,738,032
GOVT. AND OTHER SOURCES	1,278,000	1,212,000	1,038,000	542,000	236,000	4,306,000
PAHO PORTION:						
Personnel costs and travel	126,442	107,147	63,013	50,428	19,902	366,932
Supplies and equipment	15,000	18,000	15,000	8,000	4,000	60,000
Fellowships	1,700	3,400	-	-	-	5,100
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	143,142	128,547	78,013	58,428	23,902	432,032

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	2	1	1	1	1
Sanitary Engineer	1	1	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	5	5	3	2	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	8	7	4	3	1

OBSERVATIONS:

UNICEF collaborates in the project.

The project in Peru was planned and has been executed by stages.

Consolidation phase activities alone were begun in the department of Tacna in 1957. At the same time the attack phase began in the malarious area on the Pacific slope of the Andes. In 1958 the attack phase was extended to the inter-Andean valleys and to the southeastern parts of the country, and in 1959 to the Amazonas region. Considerable progress has been shown and about 2/3 of the population is now in the consolidation phase.

In addition to personnel PAHO provides antimalarial drugs for the treatment of cases and for the elimination of residual foci during the consolidation phase. Fellowships are provided to strengthen epidemiological evaluation services.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

British Guiana

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	104,930	72,700	57,235	25,000	-	259,865
GOVT. AND OTHER SOURCES	54,000	54,000	40,000	25,000	-	173,000
PAHO PORTION:						
Personnel costs and travel	30,930	16,500	16,735	-	-	64,165
Supplies and equipment	20,000	500	500	-	-	21,000
Fellowships	-	1,700	-	-	-	1,700
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	50,930	18,700	17,235	-	-	86,865

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	-	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	2	1	1	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	2	1	1	-	-

OBSERVATIONS:

UNICEF participates in this project.

Transmission has been interrupted in 93.3% of the population at risk and attack phase activities continue in the remaining 6.7%. It is anticipated that these will pass into consolidation in 1967.

PAHO supplies drugs for the radical cure of confirmed cases and, in 1964, is supplying chloroquine to be added to salt for distribution in some districts in the interior.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

British Honduras

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	53,534	53,436	-	-	-	106,908
GOVT. AND OTHER SOURCES	34,000	34,000	-	-	-	68,000
PAHO PORTION:						
Personnel costs and travel	18,634	18,936	-	-	-	37,568
Supplies and equipment	900	500	-	-	-	1,400
Fellowships	-	-	-	-	-	-
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	19,534	19,436	-	-	-	38,968

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	1	1	-	-	-

OBSERVATIONS:

UNICEF participates in this project.

The attack phase began in 1957 and the consolidation phase in 1962. It is anticipated that the entire population will be put in the maintenance phase in 1965.

Antimalarial drugs are provided for the treatment of cases.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

French Guiana

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	115,700	108,780	109,400	73,135	46,000	453,015
GOVT. AND OTHER SOURCES	96,000	96,000	96,000	60,000	45,000	393,000
PAHO PORTION:						
Personnel costs and travel	-	10,780	11,400	11,635	-	33,815
Supplies and equipment	19,700	2,000	2,000	1,500	1,000	26,200
Fellowships	-	-	-	-	-	-
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	19,700	12,780	13,400	13,135	1,000	60,015

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	-	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	1	1	1	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	-	1	1	1	-

OBSERVATIONS:

Attack phase activities are being extended and intensified after limited operations had proved successful in the coastal area around Cayenne.

In 1964 PAHO is supplying equipment and material for the implementation and in succeeding years will supply drugs for the treatment of cases.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Surinam

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	424,294	407,281	268,562	152,310	91,938	1,344,385
GOVT. AND OTHER SOURCES	323,000	305,000	180,000	100,000	70,000	978,000
PAHO PORTION:						
Personnel costs and travel	94,794	96,350	82,631	48,579	19,707	342,061
Supplies and equipment	6,500	3,500	3,500	3,000	1,500	18,000
Fellowships	-	1,700	1,700	-	-	3,400
Grants and others	-	731	731	731	731	2,924
SUB-TOTAL PAHO	101,294	102,281	88,562	52,310	21,938	366,385

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	-	-	-	-	-
Entomologist	1	1	-	-	-
Health Educator	1	1	1	-	-
Sanitary Inspector	1	1	1	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	2	2	2	2	-
TOTAL	6	6	5	3	1

OBSERVATIONS:

UNICEF collaborates in this project.

The attack phase began in 1958 and in 1961 it was possible to place the entire coastal region in consolidation, since transmission had been successfully interrupted. The problem of continuing transmission in Surinam is confined to the regions of the interior which are inhabited by Bush negroes and Amerindians. The customs of the people continue to make it difficult to spray all houses, but an extensive and intensive campaign of health education among these people has shown some success in securing cooperation.

In addition to personnel PAHO provides antimalarial drugs and fellowships.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

West Indies

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	23,770	10,135	-	-	-	33,905
GOVT. AND OTHER SOURCES	10,000	10,000	-	-	-	20,000
PAHO PORTION:						
Personnel costs and travel	13,120	-	-	-	-	13,120
Supplies and equipment	650	135	-	-	-	785
Fellowships	-	-	-	-	-	-
Grants and others	-	-	-	-	-	-
SUB-TOTAL PAHO	13,770	10,135	-	-	-	13,905

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	-	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	1	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	1	-	-	-	-

OBSERVATIONS:

UNICEF participates in the project.

Grenada and St. Lucia have been certified as having eradicated malaria.

The attack phase in Dominica was begun in 1959 and the entire island is now in the consolidation phase.

PAHO provided in addition to the sanitarian in 1964 a limited amount of drugs for the treatment of cases.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: Zone Office Supporting Services

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	14,872	15,387	15,933	16,468	17,003	79,663
Supplies and equipment	-	-	-	-	-	-
Grants and others	-	-	-	-	-	-
TOTAL, PAHO:	14,872	15,387	15,933	16,468	17,003	79,663

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	-	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	3	3	3	3	3
TOTAL	3	3	3	3	3

OBSERVATIONS:

In addition to the posts financed from the PAHO Regular Budget, 3 posts had been established from the Special Malaria Fund to provide supporting administrative services for the hemisphere wide program. These services will be maintained at reduced levels.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO O200 - Malaria Technical Advisory Team

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	111,692	104,733	107,681	109,406	111,131	544,643
Supplies and equipment	1,000	1,000	1,000	1,000	1,000	5,000
Grants and others	300	10,300	10,300	10,300	10,300	41,500
TOTAL, PAHO:	112,992	116,033	118,981	120,706	122,431	591,143

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	2	2	2	2	2
Sanitary Engineer	-	-	-	-	-
Entomologist	1	1	1	1	1
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	4	3	3	3	3
TOTAL	7	6	6	6	6

OBSERVATIONS:

The purpose of this project is to provide advisory services to governments in several specialties, and to provide supervision of the activities of the international personnel assigned to country projects with responsibility falling within these specialties.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0201 Malaria Technical Advisory Services (Zone I)

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	37,446	38,246	-	-	-	75,692
Supplies and equipment	600	600	-	-	-	1,200
Grants and others	500	-	-	-	-	500
TOTAL, PAHO:	38,546	38,846	-	-	-	77,392

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	2	2	-	-	-
TOTAL	3	3	-	-	-

OBSERVATIONS:

This project provides for a Zone advisory team in Zone I to advise and assist international personnel assigned to country projects and to give assistance in the widely scattered islands which are, individually, too small to require full time international personnel. With the entrance of many programs to the maintenance phase it is foreseen that the need for these services is not justified beyond 1965.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND

"REVISION 3"

Brazil 0202 - Training Center for Malaria Eradication -São Paulo

Country

	1964	1965	1966	1967	1968	Total
TOTAL COST	5,000	5,000	5,000	-	-	15,000
GOVT. AND OTHER SOURCES	(a)	(a)	(a)	-	-	(a)
PAHO PORTION:						
Personnel costs and travel	-	-	-	-	-	-
Supplies and equipment	-	-	-	-	-	-
Fellowships	-	-	-	-	-	-
Grants and others	5,000	5,000	5,000	-	-	15,000
SUB-TOTAL PAHO	5,000	5,000	5,000	-	-	15,000

PERSONNEL

(a) Government contribution included in Brazil (São Paulo)

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	-	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	-	-	-	-	-

OBSERVATIONS:

This project provides a grant to the Faculty of Hygiene of the University of São Paulo for additional personnel needed to conduct courses in malaria eradication techniques. Both national personnel and PAHO-sponsored fellows from other countries are trained at São Paulo.

This activity is projected through 1966 at which time it is expected that it will have fulfilled its mission.

JUN. 1964

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0203 Malaria Technical Advisory Services (Zone III)

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	54,834	57,675	60,074	61,248	62,422	296,253
Supplies and equipment	1,200	1,200	1,200	1,000	1,000	5,600
Grants and others	-	-	-	-	-	-
TOTAL, PAHO:	56,034	58,875	61,274	62,248	63,422	301,853

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	1	1	1	1	1
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	2	2	2	2	2
TOTAL	4	4	4	4	4

OBSERVATIONS:

The purpose of this project is to supplement technical advisory assistance given to countries in Zone III and at the same time to make possible a more direct and intensive supervision of the work carried out by the international personnel assigned to the different countries. It also provides specialized advisory services in certain fields in which a consultant for each country is not required.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0204 Malaria Technical Advisory Services (Zone IV)

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	56,305	21,478	21,893	22,308	22,723	144,707
Supplies and equipment	45	-	-	-	-	45
Grants and others	-	-	-	-	-	-
TOTAL, PAHO:	56,350	21,478	21,893	22,308	22,723	144,752

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	1	1	1	1
Sanitary Engineer	1	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	1	-	-	-	-
TOTAL	3	1	1	1	1

OBSERVATIONS:

The purpose of this project is to supplement technical advisory assistance given to countries in Zone IV and at the same time to make possible a more direct and intensive supervision of the work carried out by the international personnel assigned to the different countries. It also provides specialized advisory services in certain fields in which a consultant for each country is not required.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0207 Malaria Eradication Training Center Jamaica

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	3,889	-	-	-	-	3,889
Supplies and equipment	-	-	-	-	-	-
Grants and others	500	-	-	-	-	500
TOTAL, PAHO:	4,389	-	-	-	-	4,389

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	1	-	-	-	-
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	1	-	-	-	-
TOTAL	2	-	-	-	-

OBSERVATIONS:

The provision made is for the closing out of activities in the Training Center in Kingston, Jamaica.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0209 Insecticide Testing Team

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	79,271	82,582	85,203	86,506	87,809	421,371
Supplies and equipment	15,600	15,600	15,600	15,600	15,600	78,000
Grants and others	40,000	40,000	40,000	40,000	40,000	200,000
TOTAL, PAHO:	134,871	138,182	140,803	142,106	143,409	699,371

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	-	-	-	-	-
Sanitary Engineer	1	1	1	1	1
Entomologist	2	2	2	2	2
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	2	2	2	2	2
Others	-	-	-	-	-
TOTAL	5	5	5	5	5

OBSERVATIONS:

The purpose of this project is to determine the effectiveness of residual insecticides and to obtain information about the habits of malaria vectors. The team tests presently available insecticides under wide variety of environmental conditions and of different types of services and at varying concentrations. As new insecticides become available and show promise after having passed the screening process established by WHO, these are given rigorous tests under field conditions.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0210 Malaria Eradication Epidemiology Team

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	30,984	33,366	35,308	36,025	36,742	172,425
Supplies and equipment	-	-	-	-	-	-
Grants and others	-	-	-	-	-	-
TOTAL, PAHO:	30,984	33,366	35,308	36,025	36,742	172,425

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer	2	2	2	2	2
Sanitary Engineer	-	-	-	-	-
Entomologist	-	-	-	-	-
Health Educator	-	-	-	-	-
Sanitary Inspector	-	-	-	-	-
Assistant entomologist or Entomological aide	-	-	-	-	-
Others	-	-	-	-	-
TOTAL	2	2	2	2	2

OBSERVATIONS:

The purpose of this activity is to provide skilled epidemiological personnel for the study of the problem of continuing transmission in areas where the attack phase has been properly carried out but where transmission has not been stopped. The team is charged with determining the causes of persisting transmission and the study and perfection of methods for the elimination of these causes as well as the development of epidemiological measurements for evaluation of the results. An important activity assigned to the team is the training of epidemiological personnel, both national and international, in the employment of these techniques.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0211 Seminars, Local Health Services in MEP

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	-	-	-	-	-	-
Supplies and equipment	-	-	-	-	-	-
Grants and others	55,825	32,825	-	-	-	88,650
TOTAL, PAHO:	55,825	32,825	-	-	-	88,650

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Assistant entomologist or Entomological aide					
Others					
TOTAL					

OBSERVATIONS:

In order to analyze problems and develop better coordination between local health services and the malaria eradication services, two seminars are planned. One will be held for countries of South America and the other for middle America and the Caribbean.

Provision is made for short-term consultants, participants, and seminar costs.

ESTIMATED REQUIREMENTS FOR THE PAHO SPECIAL MALARIA FUND INTERCOUNTRY AND REGIONAL ACTIVITIES

"REVISION 3"

Project title: AMRO-0212 Resistance of Malaria Plasmodia Strains to Drugs

PAHO REQUIREMENTS	1964	1965	1966	1967	1968	Total
Personnel, incl. travel	-	-	-	-	-	-
Supplies and equipment	500	500	-	-	-	1,000
Grants and others	21,800	21,800	-	-	-	43,600
TOTAL, PAHO:	22,300	22,300	-	-	-	44,600

PERSONNEL

CATEGORY	1964	1965	1966	1967	1968
Medical officer					
Sanitary Engineer					
Entomologist					
Health Educator					
Sanitary Inspector					
Assistant entomologist or Entomological aide					
Others					
TOTAL					

OBSERVATIONS:

Since the phenomenon of plasmodia resistance or tolerance to antimalaria drugs, particularly to chloroquine, constitutes a possible threat in some countries, it was necessary to initiate research in order to determine the extent and importance of this problem and to determine the susceptibility of these strains to other drugs. For this purpose the Strain Screening Center for Drug-resistant Plasmodia at Ribeirão Preto, Brazil, has been organized in cooperation with Brazilian Public Health Services and the NMES.

Provision is made for the Organization to furnish the services of a medical officer, under contract, to head the Center as well as for equipment, supplies and common services. In addition, a grant is made to supplement the salaries of local personnel as required. It is expected that the necessary studies will be completed by the end of 1965.