Supplementary webappendix

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Web appendix

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1. Goals and Progress for the 32 Malaria-Eliminating Countries

1.1 Methods

A review of country-level data was conducted to compile evidence in the process of categorizing the 32 malaria-eliminating countries. Information was gathered using the World Health Organization (WHO) World Malaria Report 2009, Malaria Elimination Group meeting presentations, Asia Pacific Malaria Elimination Network meeting presentations, Pacific Malaria Initiative Support Center meeting reports, internet search engines (Google Scholar, PubMed Central) searching specific country names, the WHO, AFRO, EMRO, EURO, PAHO, SEARO and WPRO websites, and the Global Fund to Fight AIDS, Tuberculosis and Malaria grant portfolio database. Feasibility rankings from paper two of this Series were strongly considered in this process as well.
| Country     | Malaria Elimination: Goals and Progress                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------|
| Algeria     | Algeria is considered by the World Health Organization (WHO) to be in the elimination phase and lies on the northernmost endemic margin of transmission. Thirty or fewer cases are reported annually and transmission is limited to small foci in oases with isolated outbreaks occurring in the southernmost areas of the country.¹, ² |
| Argentina   | Argentina is considered by WHO to be in the pre-elimination phase and lies on the southernmost endemic margin of transmission. Argentina reported only 130 cases in 2008, occurring primarily along the northern border with Bolivia and Paraguay, and currently has programs underway to eliminate malaria.¹, ³, ⁴ |
| Azerbaijan  | Azerbaijan is considered by WHO to be in the elimination phase and lies on the northernmost endemic margin of transmission. Azerbaijan began its elimination program in 2007 and reported 73 cases of malaria in 2008.¹ Azerbaijan has signed "The Tashkent Declaration" with the goal to eliminate malaria in the region by 2015.⁵, ⁶ |
| Bhutan⁷     | Bhutan reported 960 cases in 2009, occurring primarily along the southern border with India.⁷ Bhutan is a collaborating country in the Asia Pacific Malaria Elimination Network (APMEN)⁸ and is currently developing an elimination strategy.⁹ Bhutan has targeted one-third of its administrative districts for elimination by 2018.⁹ |
| Botswana    | Botswana has experienced an 85% reduction in reported cases between 2000 and 2008 from 8,000 cases to 1,201 cases, and is currently working to achieve elimination by 2015.¹, ¹⁰ Local malaria transmission occurs primarily in the northern half of the country.¹¹ Botswana lies on the southernmost endemic margin of transmission and is a front-line country of the Elimination Eight (E8).¹², ¹³ |
| Cape Verde  | Cape Verde is an island nation with just 35 reported cases in 2008, with remaining cases occurring on only one of nine inhabited islands.¹ Cape Verde is currently reorienting its national malaria strategic plan towards elimination with the goal to eliminate by 2015.¹⁰ |
| China       | China lies on the northernmost endemic margin of transmission and has made significant progress in spatially progressive elimination.¹⁴ China is a collaborating country in APMEN⁸ and has a national elimination goal set for 2020.¹⁵ |
| Country             | Status                      | Cases Reduction          | Geographic Focus                     | Collaboration/Target                      |
|---------------------|-----------------------------|--------------------------|--------------------------------------|-------------------------------------------|
| Costa Rica          | Spatially progressive       | 50% reduction            | Eastern Caribbean low-land areas     | Eliminating from low-risk localities by 2015 |
| Dominican Republic  | Island                      | 50% reduction            | Western border with Haiti and southern port cities | Partnering with Haiti to eliminate malaria by 2020 |
| DPRK (North Korea)  | Pre-elimination             | Low cases                | DMZ near southern border             | Collaborating with APMEN to eliminate malaria by 2020 |
| El Salvador         | Pre-elimination             | 95% reduction            | Eastern region border with Azerbaijan | Eliminating from low-risk localities by 2015 |
| Georgia             | Elimination                 | Very low cases           | Eastern region along border with Azerbaijan | Signed "The Tashkent Declaration" to eliminate malaria by 2015 |
| Iran                | Pre-elimination             | 70% reduction            | Borders with Afghanistan and Pakistan | Eliminating by 2015 |
| Iraq                | Elimination                 | Very low cases           | Northern border with Turkey          | Eliminating with six cases reported in 2008 |
| Kyrgyzstan          | Elimination                 | Very low cases           | Northernmost endemic margin          | Eliminating with only 18 cases reported in 2008 |
reported in 2008, with remaining cases occurring primarily along the southwestern border with Tajikistan. Kyrgyzstan began its elimination program in 2006 and has signed "The Tashkent Declaration" with the goal to eliminate malaria in the region by 2015.

Malaysia

Malaysia is considered by WHO to be in the pre-elimination phase. Malaysia has experienced a 40% reduction in reported cases between 2000 and 2008 from 12,700 cases to 7,400 cases. East Malaysia, which shares a lengthy border with Indonesia, is responsible for over 80% of total malaria transmission. Malaysia is a collaborating country in APMEN and has set a goal to eliminate malaria from Peninsular Malaysia by 2015 and from East Malaysia by 2020.

Mexico

Mexico is considered by WHO to be in the pre-elimination phase and lies on the northernmost endemic margin of transmission. Mexico has experienced a 70% reduction in reported cases between 2000 and 2008 from 7,390 cases to 2,357 cases, with a majority of cases occurring along the southern border with Guatemala.

Namibia

Namibia lies on the southernmost endemic margin of transmission and has experienced a nearly 90% reduction in reported cases between 2001 and 2008 from 41,000 cases to 5,000 cases, with a majority of cases occurring primarily along the northern border with Angola. Namibia is a front-line country of the E8 and is currently working to achieve elimination by 2015.

Panama

Panama is currently pursuing spatially progressive elimination and has experienced a nearly 30% reduction in reported cases between 2000 and 2008 from 1,036 cases to 744 cases with more than 75% of cases occurring along the southeastern border with Columbia.

Paraguay

Paraguay is considered by WHO to be in the pre-elimination phase and is currently working towards elimination. Paraguay has experienced an 80% reduction in reported cases between 2000 and 2008 from 6,853 cases to 1,341 cases with more than 97% of cases occurring along the northeastern border with Brazil.

Philippines

The Philippines is currently pursuing spatially progressive elimination and has successfully eliminated malaria in 25% of its provinces. The Philippines is a collaborating country in APMEN and has a goal of national elimination by 2020.

Republic of Korea (South Korea)

South Korea is considered by WHO to be in the elimination phase and lies at the northernmost endemic margin of transmission. Transmission is concentrated in northern South Korea near the DMZ, occurring primarily in soldiers. South Korea is a collaborating country in APMEN and currently has programs underway to eliminate malaria by 2015.
| Country                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| São Tomé and Príncipe   | São Tomé and Príncipe is an island nation that has experienced a 95% reduction in reported cases between 2000 and 2008 from 31,975 cases to 1,572 cases. São Tomé and Príncipe is currently working to achieve elimination by 2015.                                                                                                                                                                                                                       |
| Saudi Arabia            | Saudi Arabia is considered by WHO to be in the elimination phase and began its elimination program in 2003. Saudi Arabia experienced a 90% reduction in reported cases between 1999 and 2008 from 13,166 cases to 1,491 cases with a majority of cases occurring along the southern border with Yemen. Saudi Arabia and other neighboring Arabian States are working to eliminate malaria from the Arabian Peninsula by 2020. |
| Solomon Islands         | The Solomon Islands lie on the southernmost endemic margin of transmission and are pursuing spatially progressive elimination with a goal for elimination in Temotu and Santa Isabel Provinces by 2016. Isabel Province has experienced a 96% reduction in reported cases between 2003 and 2009. The Solomon Islands is a collaborating country in APMEN and has a national strategic plan for elimination. |
| South Africa            | South Africa lies on the southernmost endemic margin of transmission and has experienced a nearly 90% reduction in reported cases between 2000 and 2008 from 64,000 cases to 8,000 cases, with remaining cases occurring primarily in the Limpopo Province along the border with Mozambique and Zimbabwe. South Africa is a front-line country of the E8 and is currently working to achieve elimination by 2015. |
| Sri Lanka               | Sri Lanka is considered by WHO to be in the pre-elimination phase. Sri Lanka has experienced a 99% reduction in reported cases between 2000 and 2008 from more than 200,000 cases to less than 700 cases. Transmission in 2009 occurred predominately in four previously conflict-affected districts in the north with more than 80% of cases occurring in soldiers. Sri Lanka is a collaborating country in APMEN and is currently working to achieve elimination by 2014. |
| Swaziland               | Swaziland lies on the southernmost endemic margin of transmission and has experienced a 95% reduction in reported cases between 2001 and 2008 from 1,395 cases to only 58 cases, with remaining cases occurring primarily in the Lubombo Province along the border with Mozambique. Swaziland is a front-line country of the E8. Swaziland has a national strategic plan for elimination and is currently working to achieve elimination by 2015. |
| Tajikistan              | Tajikistan is considered by WHO to be in the elimination phase and lies on the northernmost endemic margin of transmission. Tajikistan has experienced a 98% reduction in reported cases between 2000 and 2008 from 19,064 cases to 318 cases with remaining cases occurring along the southern border. |
| Country  | Description                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Turkey  | Turkey is considered by WHO to be in the elimination phase and lies on the northernmost endemic margin of transmission. Turkey has experienced a 98% reduction in reported cases between 2000 and 2008 from 9,465 cases to 136 cases with remaining cases occurring in the southeast region. Turkey began its elimination program in 2008 and has signed "The Tashkent Declaration" with the goal to eliminate malaria in the region by 2015. |
| Uzbekistan | Uzbekistan is considered by WHO to be in the elimination phase and lies on the northernmost endemic margin of transmission. Uzbekistan has experienced an 80% reduction in reported cases between 2000 and 2008 from 126 cases to 27 cases with remaining cases occurring along the southern and eastern borders with Afghanistan, Kyrgyzstan, and Tajikistan. Uzbekistan began its elimination program in 2008 and has signed "The Tashkent Declaration" with the goal to eliminate malaria in the region by 2015. |
| Vanuatu | Vanuatu lies on the southernmost endemic margin of transmission and has set a goal for elimination in the Tafea Province by 2016. Along with more than an 80% reduction in annual incidence from 2003 to 2009, Vanuatu has made significant progress in spatially progressive elimination by successfully eliminating transmission on Aneityum Island. Vanuatu is a collaborating country in APMEN and has a national strategic plan for elimination. |

Table 1.1.1: a. Low Pv Operational Feasibility; b. Low Pv Operational Feasibility; c. Low Pf Technical Feasibility; d. Low Pf Operational, Pv Operational, Pf All Feasibility; e. Low Pf Technical Feasibility; f. Low Pv Operational Feasibility. * Rankings correspond with the relative feasibility assessment data presented in Paper Two of this series. The ‘Low’ classification was derived by dividing the rankings of each country for the four feasibility categories (Pf Technical, Pf Operational, Pf All, and Pv Operational) into thirds: the top third (high), the middle third (middle), and the bottom third (low).
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2. Comparing Yesterday’s and Today’s Malaria-Eliminating Countries

2.1 Methods

A thorough literature review was used to compile a list of 50 historically successful and 49 historically unsuccessful malaria elimination programs (MEPs), and the 32 current malaria-eliminating countries. More than 99 national MEPs were identified in the literature review, however, some programs did not operationalize elimination as a policy (examples include Cambodia, Egypt, Saudi Arabia and Vietnam). Such programs were excluded from the analysis. Many faltering elimination programs unofficially reverted to control strategies while maintaining the language of elimination in public documents for years after the operational shift occurred. This generally entailed the abandonment of costly measures such as local foci monitoring and individual case-management. Programs were defined as unsuccessful if local transmission was never interrupted and the program either terminated, reverted to a control strategy, or was documented as financially, technically, or administratively unable to continue pursuing elimination beyond a certain date. Successful programs were defined as those where local transmission was interrupted and no local cases were reported for a period of years.

2.2 List of search terms used

The literature review used search terms: “malaria”, “eradication”, “elimination”, “national control program”, “national control programme”, “MEP”, “NMCP”, “NCP”, “local transmission”, “transmission interrupted”, specific country names, specific years associated with programs, specific article titles and author names taken from bibliographies.

2.3 List of search engines and online catalogues used

The following search engines and research databases were used: EBSCO-Academic Search Premier, ProQuest Research Library, Elsevier – ScienceDirect, Wiley Interscience, Springer-LINK, Google Scholar, PubMed Central, Public Library Of Science (PLoS), BioMed Central, Washington Regional Library Consortium ‘Aladin’ Catalogue, the WHO, AFRO, EMRO, EURO, PAHO, SEARO AND WPRO websites and historical archives, and the Roll Back Malaria online document library.

2.4 Malaria elimination programs by year and real-GDP per capita

From 1969 to 2008, the real-per-capita gross domestic product (GDP) of countries was determined using the World Development Indicators Database series for real-per-capita-GDP measured in 2000 and 2005 - international-purchasing power parity (PPP)-dollars. For years prior to 1969 and for territories not included in the WDI series, the Organization for Economic Co-operation and Development (OECD) 2009 World Economy Historical Statistics dataset and the 1995 edition of the OECD World Economy: Historical Statistics were used to determine the real-per-capita GDP of each country. Real-per-capita-GDP figures are all measured for the year in which the program ended. GDP units have been inflated to 2005-international-PPP-dollars using the IMF’s 2009 World Economic Outlook Database GDP deflator values so that purchasing power can be compared across time.
Figure 2.4.1. Elimination Program End Year vs. Real Per Capita GDP (inflated to PPP – 2005 $). Countries are labeled with their 2-letter ISO country code (see Table 2.6 for country code information).
2.5 Malaria elimination programs by year and physicians per 1000 persons

Although the authors are aware that physicians-per-thousand-persons is not an ideal proxy indicator for health system status, this indicator was used because it is the only cross-country measure of health system status available over the long historical time frame of this data set. Physicians-per-thousand-persons was determined from the World Development Indicator Database series. As this indicator is recorded infrequently for many of the countries concerned, the nearest available value was used.
Figure 2.5.1. Elimination Program End Year vs. Physicians per 1000 persons. Countries are labeled with their 2-letter ISO country code (see Table 2.6 for country code information).
Table 2.6. Tabular data for the 50 historically successful and 49 historically unsuccessful malaria elimination programs, and the 32 current malaria-eliminating countries.

| Country               | ISO Country Code | MEP End Year | Real Per Capita GDP at time of elimination program (end year inflated to PPP - 2005 $) | Physicians per 1000 persons at time of elimination program (end year) | Elimination Result |
|-----------------------|------------------|--------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------|
| Algeria               | DZ               | 2008         | $7,310                                                                                     | 1·130                                                                 | Under Way           |
| Argentina             | AR               | 2008         | $13,248                                                                                    | -----                                                                  | Under Way           |
| Azerbaijan            | AZ               | 2008         | $8,102                                                                                    | 3·630                                                                 | Under Way           |
| Bhutan                | BT               | 2008         | $4,395                                                                                    | 0·020                                                                 | Under Way           |
| Botswana              | BW               | 2008         | $12,378                                                                                    | 0·400                                                                 | Under Way           |
| Cape Verde            | CV               | 2008         | $3,239                                                                                    | 0·490                                                                 | Under Way           |
| China                 | CN               | 2008         | $5,511                                                                                    | 1·510                                                                 | Under Way           |
| Costa Rica            | CR               | 2008         | $10,390                                                                                    | 1·320                                                                 | Under Way           |
| Dominican Republic    | DO               | 2008         | $7,595                                                                                    | 1·880                                                                 | Under Way           |
| El Salvador           | SV               | 2008         | $6,280                                                                                    | 1·500                                                                 | Under Way           |
| Georgia               | GE               | 2008         | $4,526                                                                                    | 4·650                                                                 | Under Way           |
| Iran                  | IR               | 2008         | $10,783                                                                                    | 0·890                                                                 | Under Way           |
| Iraq                  | IQ               | 2008         | $5,388                                                                                    | 0·660                                                                 | Under Way           |
| Kyrgyz Republic       | KG               | 2008         | $2,023                                                                                    | 2·390                                                                 | Under Way           |
| Malaysia              | MY               | 2008         | $13,139                                                                                    | 0·710                                                                 | Under Way           |
| Mexico                | MX               | 2008         | $13,407                                                                                    | 1·500                                                                 | Under Way           |
| Namibia               | NA               | 2008         | $5,863                                                                                    | 0·300                                                                 | Under Way           |
| North Korea           | KP               | 2008         | $1,666                                                                                    | 3·290                                                                 | Under Way           |
| Panama                | PA               | 2008         | $11,558                                                                                    | 1·500                                                                 | Under Way           |
| Paraguay              | PY               | 2008         | $4,353                                                                                    | 1·110                                                                 | Under Way           |
| Philippines           | PH               | 2008         | $3,244                                                                                    | 1·150                                                                 | Under Way           |
| São Tomé and Príncipe | ST               | 2008         | $1,607                                                                                    | 0·490                                                                 | Under Way           |
| Saudi Arabia          | SA               | 2008         | $22,110                                                                                    | 1·370                                                                 | Under Way           |
| Country                | Code | Year | Amount | Rate  | Status     |
|-----------------------|------|------|--------|-------|------------|
| Solomon Islands       | SB   | 2008 | $2,413 | 0·130 | Under Way  |
| South Africa          | ZA   | 2008 | $9,343 | 0·770 | Under Way  |
| South Korea           | KR   | 2008 | $25,498| 1·570 | Under Way  |
| Sri Lanka             | LK   | 2008 | $4,215 | 0·550 | Under Way  |
| Swaziland             | SZ   | 2008 | $4,555 | 0·160 | Under Way  |
| Tajikistan            | TJ   | 2008 | $1,761 | 2·010 | Under Way  |
| Turkey                | TR   | 2008 | $12,264| 1·560 | Under Way  |
| Uzbekistan            | UZ   | 2008 | $2,455 | 2·650 | Under Way  |
| Vanuatu               | VU   | 2008 | $3,677 | 0·140 | Under Way  |
| Netherland Antilles   | AN   | 1956 | $3,930 | 1·007 | Success    |
| Hungary               | HU   | 1957 | $4,389 | 1·500 | Success    |
| Puerto Rico           | PR   | 1957 | $4,111 | ----- | Success    |
| United States         | US   | 1957 | $15,123| 1·100 | Success    |
| Chile                 | CL   | 1958 | $6,082 | 0·559 | Success    |
| France (Corsica)      | FR   | 1958 | $9,677 | ----- | Success    |
| Netherlands           | NL   | 1959 | $10,715| 1·100 | Success    |
| Portugal              | PT   | 1959 | $3,869 | 0·800 | Success    |
| Bulgaria              | BG   | 1960 | $4,032 | 1·405 | Success    |
| USSR                  | SU   | 1960 | $5,464 | ----- | Success    |
| Japan                 | JP   | 1961 | $8,934 | 1·000 | Success    |
| Grenada               | GD   | 1962 | $2,039 | 0·222 | Success    |
| Romania               | RO   | 1962 | $2,780 | 1·269 | Success    |
| Saint Lucia           | LC   | 1962 | $2,034 | 0·139 | Success    |
| Spain                 | ES   | 1962 | $5,063 | ----- | Success    |
| Israel                | IL   | 1963 | $7,783 | 2·500 | Success    |
| Lebanon               | LB   | 1963 | $3,405 | 0·938 | Success    |
| Italy                 | IT   | 1964 | $7,970 | ----- | Success    |
| Taiwan                | TW   | 1965 | $2,848 | ----- | Success    |
| Trinidad and Tobago   | TT   | 1965 | $4,754 | 0·262 | Success    |
| Country              | Currency | Year | GNP   | Exchange Rate | Status |
|----------------------|----------|------|-------|---------------|--------|
| Dominica             | DM       | 1966 | $3,274| 0·161         | Success|
| Jamaica              | JM       | 1966 | $2,737| 0·502         | Success|
| Albania              | AL       | 1967 | $2,498| 0·739         | Success|
| Cyprus               | CY       | 1967 | $7,238| 0·802         | Success|
| Poland               | PL       | 1967 | $5,682| 1·300         | Success|
| Virgin Islands (US)  | VI       | 1967 | $5,118| -----         | Success|
| Yugoslavia           | YU       | 1967 | $4,476| -----         | Success|
| Jordan               | JO       | 1970 | $3,318| 0·404         | Success|
| Qatar                | QA       | 1970 | $45,923| 0·513       | Success|
| Brunei               | BN       | 1971 | $2,769| 0·300         | Success|
| Cuba                 | CU       | 1973 | $3,109| 0·822         | Success|
| Libya                | LY       | 1973 | $4,954| 0·368         | Success|
| Mauritius            | MU       | 1973 | $5,096| 0·235         | Success|
| Greece               | GR       | 1974 | $10,328| 2·000       | Success|
| South Korea          | KR       | 1978 | $3,570| 0·500         | Success|
| Bahrain              | BH       | 1979 | $5,847| 1·087         | Success|
| Reunion              | RE       | 1979 | $5,006| -----         | Success|
| Tunisia              | TN       | 1979 | $1,460| 0·271         | Success|
| Australia            | AU       | 1981 | $19,884| 1·800       | Success|
| Singapore            | SG       | 1982 | $15,894| 0·877       | Success|
| Maldives             | MV       | 1984 | $2,769| 0·065         | Success|
| United Arab Emirates | AE       | 1997 | $43,909| 1·810       | Success|
| Egypt                | EG       | 1998 | $3,877| 1·600         | Success|
| Mauritius            | MU       | 1998 | $7,925| 0·850         | Success|
| Oman                 | OM       | 2000 | $16,950| 1·330       | Success|
| Morocco              | MA       | 2005 | $3,554| 0·510         | Success|
| Syria                | SY       | 2005 | $4,002| 0·530         | Success|
| Armenia              | AM       | 2006 | $4,728| 3·700         | Success|
| Turkmenistan         | TM       | 2006 | $4,753| 2·490         | Success|
| Country         | Code | Year | Gross GNP | Urbanization | Status     |
|-----------------|------|------|-----------|--------------|------------|
| Libya           | LY   | 2008 | $14,237   | 1·250        | Success    |
| Argentina       | AR   | 1949 | $6,990    | -----        | Un-Successful |
| Mauritius       | MU   | 1955 | $3,582    | 0·215        | Un-Successful |
| Ecuador         | EC   | 1966 | $952      | 0·335        | Un-Successful |
| Syria           | SY   | 1968 | $611      | 0·259        | Un-Successful |
| Tanzania (Zanzibar) | TZ | 1968 | $777      | 0·044        | Un-Successful |
| Bangladesh      | BD   | 1969 | $297      | 0·119        | Un-Successful |
| India           | IN   | 1969 | $235      | 0·205        | Un-Successful |
| Indonesia       | ID   | 1969 | $251      | 0·037        | Un-Successful |
| Maldives        | MV   | 1969 | $1,870    | 0·033        | Un-Successful |
| Nepal           | NP   | 1969 | $160      | 0·019        | Un-Successful |
| Sri Lanka       | LK   | 1969 | $376      | 0·169        | Un-Successful |
| Thailand        | TH   | 1969 | $538      | 0·121        | Un-Successful |
| Brazil          | BR   | 1970 | $2,262    | 0·492        | Un-Successful |
| Cape Verde      | CV   | 1970 | $857      | 0·082        | Un-Successful |
| Colombia        | CO   | 1970 | $1,350    | 0·420        | Un-Successful |
| El Salvador     | SV   | 1970 | $2,185    | 0·243        | Un-Successful |
| Guatemala       | GT   | 1970 | $1,422    | 0·274        | Un-Successful |
| Honduras        | HN   | 1970 | $1,005    | 0·269        | Un-Successful |
| Madagascar      | MG   | 1970 | $458      | 0·097        | Un- |
| Country                      | Code | Year | Value  | Interest Rate | Outcome |
|------------------------------|------|------|--------|---------------|---------|
| Malaysia (Sabah)             | MY   | 1970 | $1,247 | 0.232         | Successful |
| Nicaragua                    | NI   | 1970 | $1,474 | 0.453         | Successful |
| Venezuela                    | VE   | 1970 | $7,097 | 0.883         | Successful |
| Ethiopia                     | ET   | 1971 | $840   | 0.012         | Successful |
| Pakistan                     | PK   | 1971 | $314   | 0.232         | Successful |
| Papua New Guinea             | PG   | 1971 | $747   | 0.086         | Successful |
| Peru                         | PE   | 1971 | $2,376 | 0.521         | Successful |
| Afghanistan                  | AF   | 1972 | $872   | 0.065         | Successful |
| Bolivia                      | BO   | 1972 | $1,134 | 0.509         | Successful |
| Burma                        | MM   | 1972 | $890   | 0.114         | Successful |
| French Guiana                | GF   | 1972 | $6,611 | -----         | Successful |
| Argentina                    | AR   | 1973 | $7,853 | 1.892         | Successful |
| Belize (British Honduras)    | BZ   | 1973 | $1,567 | 0.342         | Successful |
| Costa Rica                   | CR   | 1973 | $3,106 | 0.614         | Successful |
| Dominican Republic           | DO   | 1973 | $1,377 | 0.435         | Successful |
| Iraq                         | IQ   | 1973 | $5,198 | 0.309         | Successful |
| Panama                       | PA   | 1973 | $3,450 | 0.597         | Successful |
| Paraguay                     | PY   | 1973 | $1,039 | 0.439         | Successful |
| Philippines                  | PH   | 1973 | $922   | 0.113         | Successful |
| Country                  | Code | Year | Cost  | Incidence | Status        |
|--------------------------|------|------|-------|-----------|---------------|
| Surinam                  | SR   | 1973 | $2,944| 0.465     | Successful    |
| Turkey                   | TR   | 1973 | $2,616| 0.500     | Un-Successful |
| Guyana (British Guiana)  | GY   | 1974 | $919  | 0.249     | Un-Successful |
| Haiti                    | HT   | 1974 | $795  | 0.081     | Un-Successful |
| Mexico                   | MX   | 1975 | $4,689| -----     | Un-Successful |
| Algeria                  | DZ   | 1978 | $2,089| 0.380     | Un-Successful |
| Morocco                  | MA   | 1978 | $1,133| 0.076     | Un-Successful |
| Solomon Islands          | SB   | 1978 | $556  | 0.205     | Un-Successful |
| Sao Tome and Principe    | ST   | 1982 | $2,430| 0.419     | Un-Successful |
| Mayotte                  | YT   | 1984 | $1,791| -----     | Un-Successful |
| Iran                     | IR   | 1985 | $7,131| 0.347     | Un-Successful |

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