Memorandum

Date

September 15, 1997

From



WHO Collaborating Center for Research, Training, and Eradication of Dracunculiasis

Subject

GUINEA WORM WRAP-UP #71

To

Addressees

Detect Every Case, Contain Every Worm!

SUDAN: REDUCED CASES IN NORTHERN STATES AND WESTERN EQUATORIA

71%, which is about the same as their average reporting rate of 75% in 1996.



The ten northern states of Sudan have reported a total of 233 cases in January-July 1997, compared to 890 cases during the same period of 1996. This is a reduction of 74%, and it includes an even greater reduction of 91% in the most highly endemic of the northern states, West Kordofan (from 745 cases last year to 64 cases so far this year). The same states reduced their incidence by 57% in 1996 compared to 1995. As of this year, the rates of reporting in the northern states have averaged

SUDAN GWEP

Meanwhile, West Equatoria State in the southern part of the country reports 1,816 cases in January-June 1997, compared to 4,973 cases reported for the same period of 1996. This is a reduction of 64% in reported incidence there, despite a 12% increase in reporting rates for that state this year compared to last year. Unfortunately, the average rates of monthly reporting for Sudan as a whole are still significantly lower in 1997 so far (32%) than in 1996 (47%), because of increased disruption this year in the highly endemic southern states from the civil war.

In July, the Sudan Guinea Worm Eradication Program (SGWEP) convened its first regional review for state programs in endemic areas accessed by the Government of Sudan in Upper Nile Zone, at Sennar. Similar regional program reviews have since been held in Wau (Bahr al Ghazal) and in Khartoum for El Obeid (Kordofan). In August, the SGWEP Secretariat in Khartoum also began holding detailed reviews of data from one individual state several times each week. Sudan accounts for 61% of the cases of dracunculiasis reported globally so far this year.

WORLD BANK, CARTER CENTER ESTABLISH GUINEA WORM TRUST FUND



World Bank
THE
CARTER CENTER



The World Bank has established a special Guinea Worm Eradication Trust Fund, for which The Carter Center is the executing agency. The Trust Fund was established following an agreement between World Bank president Mr. James Wolfensohn and Carter Center President Jimmy Carter. The purpose of the Fund is to facilitate activities being undertaken by Global 2000/The Carter Center in support of focused eradication measures during the final stage of the campaign. Approximately \$1.5 million has been donated to the Trust Fund so far. As of this date, the main donors

to the Trust Fund include Norway, the Kuwait Fund for Arab Economic Development, the Canadian International Development Agency (CIDA), and Luxemburg. Several other donors are considering providing support through this channel.

NIGERIA: INCREASED SUPPORT FOR WATER SUPPLY; MORE CASES TO CAMEROON



The Petroleum Trust Fund, an agency of the Federal Government of Nigeria, has reportedly agreed in principle to fund the building of borehole wells in all remaining endemic villages in Nigeria. No starting date or implementation plan have yet been established, however. The agreement came in follow-up to an appeal by former U.S. President Jimmy Carter during his visit to Nigeria at the end of July. Local Rotarians have also agreed to provide safe sources of drinking water for 53 endemic communities

in Ogun State, according to a report from Southwest Zonal Facilitator Prof. O. O. Kale. The new water and environmental sanitation chief for UNICEF/Nigeria, Mr. Mansoor Ali, has also expressed his agency's desire to help ensure availability of safe water to all remaining unserved endemic villages in Nigeria. Mr. Mansoor participated in a meeting of the Steering Committee for the Nigerian program in Lagos on September 2. This was the first steering committee meeting that the Nigerian program has held since January 1997. So far this year, Nigeria reports a reduction of only 5% in cases of dracunculiasis, compared to the same period of 1996 (Figure 1, Table 1).

Figure 1 PERCENTAGE OF ENDEMIC VILLAGES REPORTING AND PERCENTAGE CHANGE IN NUMBER OF CASES OF DRACUNCULIASIS DURING 1996 AND 1997*, BY COUNTRY

| COUNTRY | ENDEMIC | VILLAGES: 1997 | CASES | REPORTED | % CHANGE : 1996 - 1997 % REDUCTION _50 % INCREASE | 100 |
|---------------------------|---------|----------------|-------|----------|--|-----|
| | NUMBER | % REPORTING | 1996 | 1997 | į | |
| INDIA (8) | 3 | 100 | 9 | 0 | -100 | |
| MAURITANIA (3) | 142 | NR | 16 | 2 | -88 | |
| YEMEN (7) | 9 | 100 | 55 | 7 | -87 | |
| CHAD (6) | 13 | 100 | 92 | 16 | -83 | |
| MALI (7) | 452 | 81 | 968 | 391 | -60 | |
| COTE D'IVOIRE (8) | 226 | 91 | 2518 | 1007 | -60 | |
| BENIN (7) | 341 | 91 | 585 | 302 | -48 | |
| BURKINA FASO (8) | 349 | 26 | 2718 | 1512 | -44 | |
| SUDAN (6) | 5593 | 35 | 45492 | 27861 | -39 | |
| TOGO (7) | 249 | NR | 820 | 585 | -29 | |
| UGANDA (7) | 386 | 99 | 1304 | 1201 | -8 🔳 | |
| NIGERIA (7) | 1593 | 92 | 8975 | 8509 | -5 ■ | |
| CAMEROON (7)™ | 13 | 100 | 0 | 0 | 0 | |
| NIGER (8) | 416 | 99 | 1700 | 1924 | 13 + | |
| ETHIOPIA (8) | 57 | 99 | 340 | 408 | 20+ | |
| GHANA (7) | 1028 | 100 | 3860 | 6747 | 75 | + |
| SENEGAL (7) | 7 | 100 | 2 | 4 | | 10 |
| TOTAL *** | 10877 | 62 | 69454 | 50484 | -27 | |
| TOTAL MTHOUT SUDAN *** | 5284 | 90 | 23962 | 22623 | -6 ■ | |

⁽³⁾ Reports for Jan. - Mar. 199

⁽⁶⁾ Reports for Jan. - June 1997 (7) Reports for Jan. - July 1997 (8) Reports for Jan. - Aug. 1997

Provisional

Reported 1 case in June and 7 cases in July imported from Nigena Includes 8 cases imported into Cameroon from Nigena.

NUMBER OF CASES CONTAINED AND NUMBER REPORTED BY MONTH DURING 1997* (COUNTRIES ARRANGED IN DESCENDING ORDER OF CASES IN 1996)

Table 1

| | | | , | | | | | | | | | | | | | |
|---------------|-------------|---------|-------------|-----------------|----------------------------|-------------|-------------------------|-------------|-------------|--|-----------|---------|-------------------|----------|-----------------------------|---------|
| | ₽ OF | ` | | | | | | | | | | | | | | |
| COUNTRY | ENDEMIC | OP | | | | | NUMBER O | F CASES CON | TAINED / NU | NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED | SREPORTED | | | | | |
| | VILLAGES: | CASES | | | | | | | | | | | | | | S CONT. |
| | 141197 | 9661 NI | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | ATOL | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER DECEMBER | DECEMBER | TOTAL. | |
| SUDAN | \$114 | 118578 | 1965 | 840 | 5286 / 8343 | | | 778 | , | , | , | 1 | , | , | 14178 / 27861 | 51 |
| NIGERIA | 1353 | l | 983 , | 1294 | 878 / | 797 , | , 070 | 1092 , | 1143 | , | , | , | , | , | 7157 , | 25 |
| GHANA | 602 | | 1498 | 1182 | 904 / | 606 | 583 , | 272 , | 194 , | , | , | , | , | , | 5313 , | 79 |
| BURKINA FASO | 337 | | 19 | 30 / | 45 / | 39 / 73 | 49 / 322 | 122 , 366 | 108 | 19, | , | , | , | , | 418 / 1512 | 28 |
| NIGER | 416 | | | 0,0 | 2 / 4 | 3, | 33 / | 216 / | 296 , 570 | 500 , | , | , | , | 1 | 1055 , | 55 |
| COTE D'IVOIRE | 216 | | | 141 1 991 | 109 / 140 | 130 , 171 | 134 , | 65 e | 96 96 | 54 , | , | , | , | , | 896 _/ 1007 | 89 |
| MALI | 430 | 2402 | 25 / | ", " | 4 / | 81/8 | 23 / 30 | 75 , | 133 / 180 | , | , | , | , | , | 279 / | 71 |
| 1000 | 249 | | 68 / 120 | 23 / 36 | 47 , 57 | 28, |) lE | 25 / 50 | 73 / 145 | , | , | , | , | , , | 295 _/ 585 | 30 |
| UGANDA | 327 | | | 9/1 | 27 , 36 | 110 , | 295 _/ 596 | 160 / 243 | 83 , | , | , | , | , | , | 682 / 1201 | 57 |
| BENIN | 325 | 1427 | 98 , | 38, | 15 , | 74 / | 28 / 28 | 17, | 4, | , | , | , | , | , | 274 / | 91 |
| MAURITANIA | 143 | 295 | 1,1 | 0,0 | 1,1 | , | , | , | . , | , | , | , | , | 1 | 2,2 | 100 |
| ETHIOPIA | 1.5 | 371 | 4 / 5 | 2,2 | 7,7 | 40 / | 76 , 106 | 110 , | 62 , 65 | 51 , 52 | , | , | , | 1 | 352 _/ | 86 |
| CHAD | 12 | 121 | 2,2 | 2,2 | 9 19 | 1,1 | 1,1 | 4 , | , | , | , | , | , | , | 16 , 16 | 100 |
| YEMEN | 7 | 62 | 0,0 | 0,0 | , , , | 1,1 | 2,4 | 1,1 | 0,0 | , | , | , | , | 1 | 5,7 | 71 |
| SPNEGAL | | -61 | 0,0 | 0,0 | 0,0 | °, ° | 0,0 | 3 / 3 | 1,1 | , | , | , | , | 1 | 4, | • |
| CAMEROON•• | 13 | 17 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 1,1 | , | , | , | 1 | 1 | 1 | 1,8 | 13 |
| INDIA | 60 | 8 | 0,0 | 0,0 | °, | 0,0 | | 0,0 | 0,0 | 0,0 | , | , | , | , | 0,0 | • |
| TOTAL* | 1196 | 152805 | 4807 , 6884 | 3589 , 4584 | 7332 _/ 10943 | 4356 / 9306 | 5091 , 9741 | 2935 / 4448 | 2193 | 624 , | 0,0 | 0,0 | 0,0 | 0,0 | 30927 _/ 50484 | 61 |
| | % CONTAINED | | 0, | 78 | 19 | 47 | 52 | 99 | 63 | 56 | • | ٠ | , | • | 61 | |
| | | | | | | | | | | | | | | | | |

Provisional
 Reported 1 case in June and 7 cases in July imported from Nigeria.

Representatives from Guinea Worm Eradication Programs in the border areas of northeast Nigeria and Zinder Department of Niger met in Magaria, Zinder on August 26 to review the status of program activities on both sides of the border (Zinder Department of Niger, and Kano and Jigawa States of Nigeria). One problem common to both programs that was discussed is small "satellite settlements" surrounding larger known endemic villages. The smaller settlements become increasingly important foci of dracunculiasis after interventions reduce transmission in the main villages. Participants at the meeting also exchanged experiences on the use of Tamale oil. One case that was allegedly imported into Yobe State, Nigeria from Niger in July, was reported just before the border meeting began. A previous Niger-Nigeria border meeting was held in Babura Local Government Area (LGA) of Nigeria on May 6. The next meeting is scheduled to be held in Sule Tankarkar LGA of Nigeria's Jigawa State on November 27.

Meanwhile, Cameroon reports seven cases imported into Amchide, Cameroon in July from Cha-Chile village in Bama LGA of Nigeria's Borno State (Figures 2, 3; Table 2). According to Dr. Dama Mana of Cameroon, all seven patients live in Amchide, Cameroon and all were allegedly infected from the same water point while tending their farms just across the border in Cha-Chile, Nigeria. These seven cases and one other reportedly imported from Bama LGA in Nigeria in June are the only cases reported in Cameroon through July this year. Mr. Ben Nwobi, zonal facilitator for Northeast Zone of Nigeria, reports that one of the seven imported patients reported by Cameroon was seen by the LGA GW coordinator in Nigeria, but refused to have his worm attended to in Nigeria, prefering instead to collect a cash reward for presenting himself for treatment in Cameroon. Cameroon now offers a cash reward of up to 22,000 CFA (about US \$45) for each case of dracunculiasis. Nigeria does not yet offer a cash reward for reporting or treating a case. Staff of the Nigerian and Cameroonian programs are tentatively scheduled to meet on September 17 at Banki Health Post in Bama LGA, Nigeria. Other known international importations of dracunculiasis cases so far this year are summarized in Table 2 and Figure 3. [EDITORIAL NOTE: We do not yet know whether the 7 imported cases reported by Cameroon were contained or not (Table 1). That information will be critical to documenting, to the satisfaction of the International Commission for Certification of Dracunculiasis Eradication, whether or not Cameroon will have had any indigenous casses in 1997.]

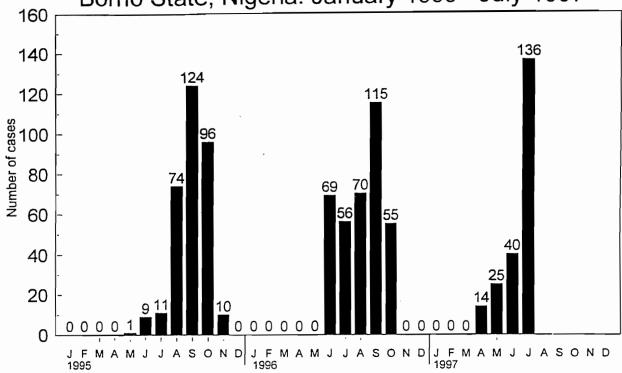
MOPTI REGION OF MALI INCREASES HEALTH EDUCATION AND ABATE USAGE



Mopti, the most highly endemic region of Mali, continues to make steady progress. In January-July 1997, it reported 200 cases, of which 172 (86%) were contained. This is a reduction of 48% from the 383 cases that were reported in the region during the same period of 1996. In August 1997, 15 of the most difficult higher endemic villages (out of a total of 149 endemic villages) were targeted for an evening program of discussions,

contests, dancing, and a video about Guinea worm disease in each village. The regional coordinator and three university students from the area of each village participated in the visits, which were funded by UNICEF. Mopti Region now has 28 persons supplied and trained to use Abate in its most endemic areas. Forty-seven (47) water sources were treated with Abate in 17 endemic villages of this region in July 1997, compared to 15 sources in 7 villages in July 1996. Kayes Region, which was the second highest endemic region when Mali began its Guinea Worm Eradication Program, has reported only 25 cases in January-July 1997, as compared to 131 cases in the same period last year, for a reduction of 81%. Eighty-eight percent of the cases in Kayes this year have been contained. Overall, Mali has reduced its incidence by 60% so far this year, which is one of the two best rates of reduction in the high-moderately endemic countries (Côte d'Ivoire is the other) (Figure 1).

Reported Cases of Dracunculiasis, Bama LGA, Borno State, Nigeria: January 1995 - July 1997



Reported Cases of Dracunculiasis, Cameroon: January 1995 - July 1997

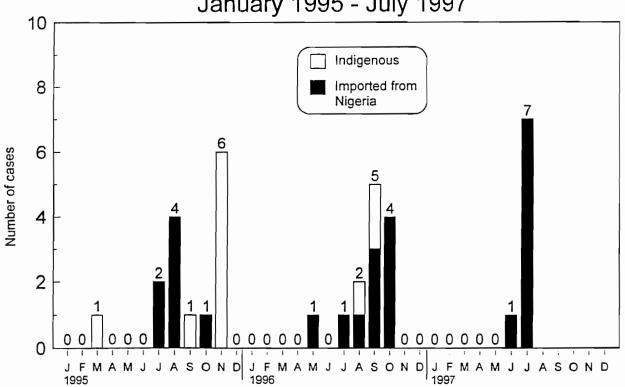


Table 2

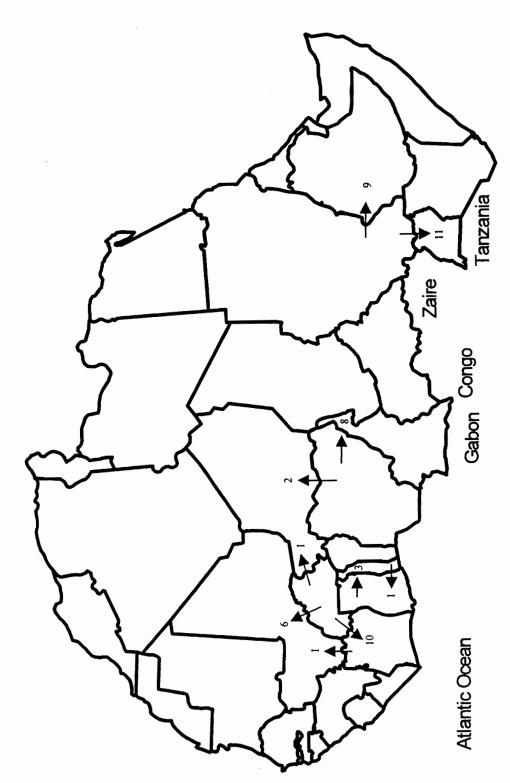
Dracunculiasis Eradication Campaign

Reported Importations of Cases of Dracunculiasis: Jan.-Aug.1997

| From | То | Month | | Cases | |
|---------------|---------------|----------|--------|-----------|----------------|
| | | | Number | Contained | Cross notified |
| Burkina Faso | Mali | January | 2 | 2 | 0 |
| | | June | 1 | 1 | 1 |
| | | July | 3 | ? | 3 |
| | Côte d'Ivoire | June | 2 | 1 | 2 |
| | | July | 1 | 1 | 1 |
| | | August | 7 | 1 | 6 |
| | Niger | July | 1 | ? | 1 |
| Côte d'Ivoire | Mali | June | 1 | 1 | 0 |
| Ghana | Togo | January | 3 | 1 | 3 |
| Nigeria | Niger | March | 1 | 1 | 1 |
| | | June | 1 | 1 | 1 |
| | Cameroon | June | 1 | 1 | 1 |
| | | July | 7 | ? | 7 |
| Togo | Ghana | June | 1 | 0 | 1 |
| Sudan | Uganda | March | 3 | 3 | 3 |
| l | | July | 6 | 1 | 6 |
| | | August | 2 | 2 | 2 |
| | Ethiopia | February | 3 | 3 | 0 |
| | | March | 2 | 2 | 2 |
| | | April | 1 | 1 | 0 |
| | | May | 1 | 0 | 1 |
| | | June | 1 | 1 | 1 |
| | | July | 1 | 1 | 1 |
| | Total | | 52 | 25 | 44 |

Figure 3

Reported Importations of Cases of Dracunculiasis: Jan. - Aug. 1997 Dracunculiasis Eradication Campaign



ETHIOPIA: VILLAGE-BY-VILLAGE LISTING FOR SOUTH OMO



Ethiopia's Dracunculiasis Eradication Program (EDEP) has inaugurated a village-by-village listing of the 31 known endemic villages in South Omo Region, as an efficient means for maintaining an up-to-date overview of the status of interventions and disease incidence in each village (<u>Table 3</u>). Similar lists of individual endemic villages were used in Pakistan towards the end of that program, and in Cameroon and Yemen. So

far, Ethiopia has reported 20% more cases this year than in the same period of 1996. [EDITORIAL NOTE: At this stage of the global program, village-by-village lists are appropriate for district level supervisors in all endemic areas, and for national program coordinators of all of the least endemic countries. All external partners need to help the Ethiopian program to complete preparations and obtain all necessary resources by the end of this year in order to stop transmission in Ethiopia in 1998.]

<u>President Jimmy Carter</u> discussed the special challenge of dracunculiasis in South Omo with <u>Prime Minister Meles Zenawi</u> during a visit to Addis Ababa in August. President Carter, who was in the country primarily for an agricultural meeting that was co-sponsored by the Sasakawa Africa Association and The Carter Center (Global 2000), was accompanied on the visit by Carter Center executive director <u>Dr. John Hardman</u> and Global 2000 director of operations <u>Mr. Andrew Agle</u>.

WHO PROVIDES GRANTS TO ENDEMIC COUNTRIES, CONTINUES CERTIFICATION PROCESS



WHO has received requests and complete documentation from 37 additional countries wishing to be certified as free of dracunculiasis by the International Commission for Certification of Dracunculiasis Eradication. An International Certification Team is scheduled to investigate the absence of dracunculiasis in Egypt in November 1997. The Third Meeting of the Commission is scheduled to be held in Geneva on February 19-20.

1998.

WHO has provided support to several national Guinea worm programs to enhance surveillance and/or precertification activities. This assistance is based on activities planned in agreement with national program managers.

| Benin | US \$15,000 | Cameroon | US \$12,500 |
|--------------------------|--------------|----------|-------------|
| Central African Republic | US \$4,200 | Chad | US \$31,000 |
| Côte d'Ivoire | US \$17,000 | Gambia | US \$4,000 |
| Guinea | US \$6,000 | India | US \$17,000 |
| Mauritania | US \$15,000 | Niger | US \$25,000 |
| Nigeria | US \$25,000 | Senegal | US \$22,000 |
| Sudan | US \$121,000 | Togo | US \$8,000 |
| Yemen | US \$17,000 | | |

SOUTH OMO DRACUNCULIASIS ERADICATION PROGRAM (SODEP) STATUS OF INTERVENTIONS BY VILLAGE: JAN. - AUG. 1997

Table 3

| Comments | | | | | | | 1 pump not working | | | | Road Problems | | | | Road Problems | | | | | | | | | | | | | | | | Road Problems | Difficult to Reach | |
|---------------------|---------------|---------|-----------|-------------|-------------|-----------|--------------------|----------|-----------|------------|---------------|----------|----------|-----------|---------------|-------------|----------|----------|-----------|------------|----------|-------------|----------|----------|-----------|----------|----------|----------|-------------|-----------|---------------|--------------------|-------|
| No. of Sup Comments | Visits | weekly | 0 weekly | weekly | weekly | weekly | weekly | weekly | 0 weekly | 1 monthly | 0 2/month | 0 weekly | 0 weekly | 0 weekly | 1 2/month | 1 weekly | 0 weekly | weekly | 0 weekly | weekly | 0 weekly | 0 weekly | 0 weekly | 0 weekly | 0 weekly | 1 weekly | 0 weekly | 0 weekly | 0 weekly | 0 weekly | 0 2/month | ouce | |
| No. of Med | Kits refilled | 2 | 0 | 0 | 1 | 0 | 1 | - | 0 | - | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 'n. | Kits avail. | 2 | 3 | 0 | E | 2 | 1 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | l . | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| No. Health | Edu. Sessns | weekly | weekly | weekly | 0 weekly | 0 weekly | 4 weekly | 0 weekly | 0 weekly | 0 monthly | 0 weekly | weekly | weekly | 3 weekly | 3 weekly | 0 weekly | weekly | weekly | 0 weekly | 0 weekly | 0 weekly | 0 weekly | 0 weekly | 0 weekly | 0 weekly | weekly | weekly | 0 weekly | weekly | weekly | weekly | once | |
| No. Safe | Water Pts. | - | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 3 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | - | 0 | 1 | 2 | 2 | NR | 28 |
| | l reat. | - | - | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR | က |
| | | 2 | - | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0. | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR | 8 |
| _ | _ | 550 | 8 | 0 | 208 | 183 | 110 | 82 | 09 | 243 | 110 | 0 | 0 | 0 | 0 | 220 | 0 | 20 | 80 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR | 2,109 |
| | _ | 92 | 35 | 25 | 19 | 20 | 15 | 18 | 18 | 14 | 10 | 7 | 7 | 8 | 8 | 8 | 4 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | NR L | 329 |
| New | | 124 | 36 | 26 | 22 | 20 | 19 | 18 | 18 | 15 | 12 | 11 | 10 | 6 | 8 | 8 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | 383 |
| | | 466 | 72 | 79 | 108 | 49 | 151 | 99 | 92 | 92 | 116 | 86 | 121 | 115 | 197 | 66 | 104 | 65 | 24 | 105 | 09 | 38 | 72 | 74 | 53 | 75 | 72 | 71 | 36 | 29 | 124 | 504 NR | 3,384 |
| | Name | 16 Ejem | 21 Achuka | 10 Pullukol | 20 Kawlegna | 18 Lowuse | 22 Kangaten | 23 Aipa | 25 Lotome | 19 Lomotoy | 29 Kopria | 7 Loger | 4 Jonal | 14 Ariapa | 27 Napotokoit | 28 Shunkura | 11 Arong | 15 Lobor | 24 Lexawi | 8 Lopiding | Acheya | 26 Narogoid | 2 Lokodo | 5 Kaile | 3 Lopeyok | 1 Mechar | 6 Ailla | 4 Esekon | 12 Lokoroma | 13 Kapuko | 30 Kakula | 31 Naila | Total |
| d) | ego | 16 | 21 | 9 | 20 | 18 | 22 | 23 / | 25 | 19 | 59 | 7 | 4 | 14 / | 27 | 28 | 11, | 15 | 24 | 8 | 17/ | 56 | 2 | 5 | 3 | 1 | 9 | 4 | 12 | 13 | 30 | 31 | |

NR: No Report

IN BRIEF:

Benin will hold a workshop on October 1-2 for re-training health workers in the Guinea Worm Eradication Program, using support provided by WHO. UNICEF is supporting similar retraining in Côte d'Ivoire. Mr. Harry Godfrey made brief consultations to the programs in Côte d'Ivoire and Benin in August-September, with the support of Global 2000.

Togo. Mr. Mohammed Salissou Kane of the Niger Guinea Worm Eradication Program has been engaged by Global 2000 as a consultant to help with Abate training in Togo (September 16-20) at the request of Togo's national program coordinator, Mr. K. Ignace Amegbo. Mr. Kane arrived in Togo on September 13.

Ghana. An evaluation of Ghana's Guinea Worm Eradication Program is scheduled to begin on October 20.

India. Dr. Olavi Elo, WHO Representative to India, informed the WHO Collaborating Center that India's National Institute of Communicable Diseases has confirmed the absence of cases of dracunculiasis since August 1996. The absence of any reported cases during the last 13 months during which cases were actively sought by the surveillance system, including through the offers of rewards, indicates the likelihood that India's Guinea Worm Eradication Program has halted all transmission of the disease. Congratulations, India!!!

Senegal. Matam District in northeastern Senegal observed Guinea Worm Day on August 21. The occasion included a ceremony at Appe Diaobe, which was attended by administrative, health, and water supply officials; representatives of WHO, UNICEF, and CDC; National Field Supervisor Mr. Georges N'Diaye; and the national program coordinator, Dr. Abou Bekr Gaye. All four cases reported in Senegal so far in 1997 were in the village of Koyeneingruil in Matam District. After consulting in Senegal, CDC's Mr. Mark LaPointe also made a brief visit to Mauritania.

<u>Dr. Alhousseini Maiga</u> traveled to Atlanta and Geneva in late August for consultations on the status of eradication efforts with Global 2000 and CDC, and WHO headquarters staff, respectively.

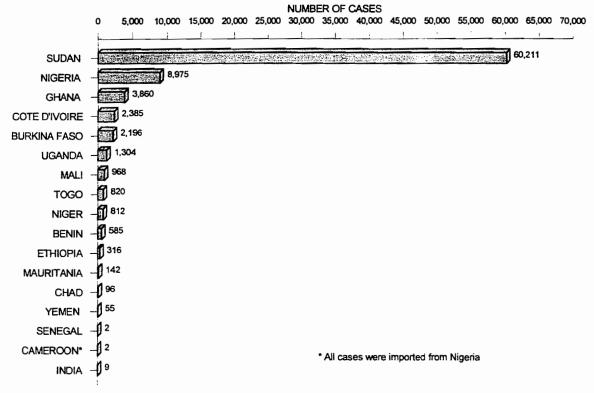
Dr. Anders Seim left the Dracunculiasis Eradication Unit at WHO headquarters in July. He continues his active support for eradication of dracunculiasis and of lymphatic filariasis as the founder of Health and Development International (HDI), a non-profit Non-Governmental Organization. HDI continues to offer limited funding for cash rewards for reporting cases of dracunculiasis to programs in the final stages of eradication. Dr. Seim may be contacted at Chemin de la Dole 24, CH-1297 Founex, Geneva, SWITZERLAND. Telephone and fax numbers: +41-22-776 9977.



Hopkins DR, 1997. Dracunculiasis eradication [letter]. Lancet, 350:812, Sept 13.

Cairncross S, Periès H, Cutts F, 1997. Authors' reply [letter]. Lancet, 350:812-813, Sept 13.

Figure 4. DISTRIBUTION BY COUNTRY OF 82,738 CASES OF DRACUNCULIASIS REPORTED: JANUARY - JULY 1996



DISTRIBUTION BY COUNTRY OF 49,370 CASES OF DRACUNCULIASIS REPORTED: JANUARY - JULY 1997

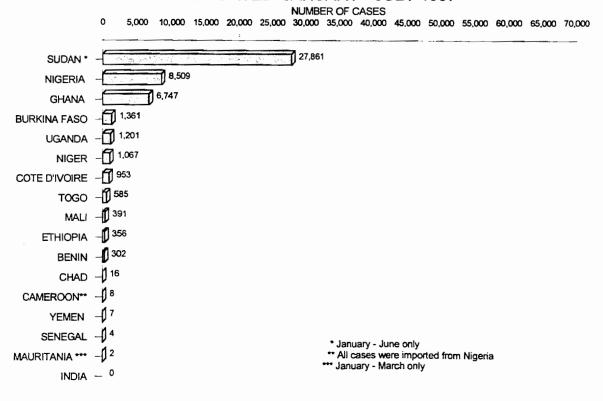
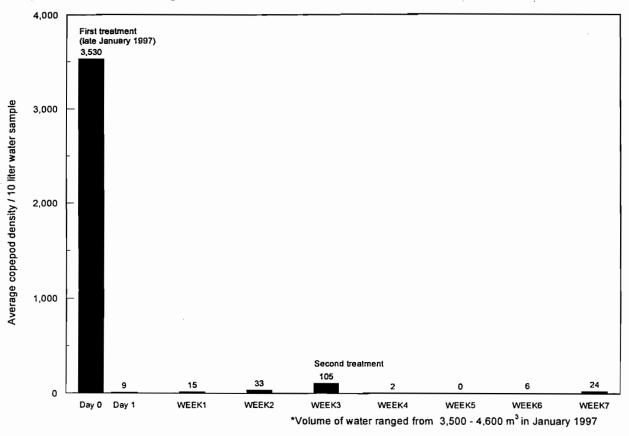


Figure 5

IMPACT OF ABATE USAGE ON AVERAGE COPEPOD DENSITIES IN THREE DAMS*
SERVING THE TOWNS OF SAVELUGU, KARAGA, AND GUSHEGU, GHANA
(These three towns reported 50% of all cases in the Northern Region in the first half of 1997)



Inclusion of information in the Guinea Worm Wrap-Up does not constitute "publication' of that information.

In memory of BOB KAISER.

For information about the GW Wrap-Up, contact Trenton K. Ruebush, MD, Director, WHO Collaborating Center for Research, Training, and Eradication of Dracunculiasis, NCID, Centers for Disease Control and Prevention, F-22, 4770 Buford Highway, NE, Atlanta, GA 30341-3724, U.S.A. FAX: (770) 488-4532.



CDC is the WHO Collaborating Center for Research, Training, and Eradication of Dracunculiasis.