

Date: January 22, 1999

From:

Subject:



WHO Collaborating Center for Research, Training and Eradication of Dracunculiasis

**▼** GUINEA WORM WRAP-UP #86

To: Addresses

### **Detect Every Case, Contain Every Worm!**

#### ETHIOPIA: NO CASES IN NOVEMBER, AIMING TO BREAK TRANSMISSION IN 1999



After three years of almost unchanged incidence (Figure 1), Ethiopia's Dracunculiasis Eradication Program (EDEP) expects to achieve a significant decrease in incidence of the disease in 1999, and it is going all-out to prevent any transmission from cases this year. The program reported zero cases in November 1998, which was its first month with zero cases since the program began. In 1998, 83% of all cases were reported from the region

of South Omo, which borders Kenya and Sudan, and is home to the semi-nomadic, pastoral Nyangaton (Bume) people. The status of interventions in the thirty settlements that were considered endemic in the region in 1998 is summarized in Table 1. The program constructed six new rainwater catchment tanks among the nine most highly endemic villages of South Omo during 1998, with funding provided by the Government of Japan, UNICEF and Global 2000. Abate treatments of standing water sources were also increased in 1998. Although the EDEP reported an overall case containment rate of 96% in 1998,

Figure 1 ETHIOPIA GUINEA WORM ERADICATION PROGRAM
NUMBER OF CASES OF DRACUNCULIASIS REPORTED: 1994-1998\*

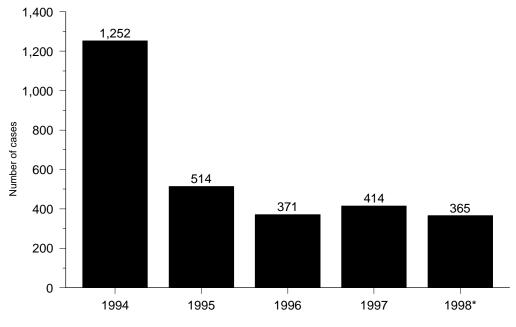


Table 1

### ETHIOPIAN DRACUNCULIASIS ERADICATION PROGRAM (EDEP) STATUS OF INTERVENTIONS BY VILLAGE AS OF 31 DECEMBER 1998 SOUTH OMO REGION DRACUNCULIASIS ERADICATION PROGRAM (SODEP)

Contained distributed treated   Contained distributed treate	Village	Village	No. of	No. of	No. of	No. of	No. of	No. of	No. of health	Medical**1	Medical	Frequncy	
16   Ejem	code	name	households	new	cases	filters	ponds	safe water	education	kits kits		of supervisory	Comments
29   Kopria   164   54   50   245   1   2   2/month   1   1   1   2/month   Majority displication   Med. kits shall				cases*	contained	distributed	treated	points	sessions	available	refilled	visits	
14 Ariapa	16	Ejem	568	61	59	1440	1	3	weekly	3	3	weekly	
19   Lomotoy	29	Kopria	164	54	50	245	1	2	2/month	1	1	2/month	Majority displaced
10	14	Ariapa	153	25	25	393	0	2	weekly	1	1	weekly	
20   Kawleona	19	Lomotoy	60	22	22	166	1	0	weekly	0	0	weekly	Med. kits shared
15   Lobor	10	Lopeto	126	21	21	208	0	2	weekly	1	1	weekly	
30   Kakuta	20	Kawleona	84	16	16	215	0	1	weekly	0	0	weekly	Med. kits shared
21   Achuka   57   11   11   153   1   3   weekly   2   2   weekly   3   2   3   3   2   1   3   0   weekly   3   4   weekly   3   weekly   3   4   weekly   3   4   weekly   3   4   weekly   3   weekly   3   4   weekly   3   4   weekly   3   4   weekly   3   weekly   3   4   weekly   4   weekly   4   weekly   4   weekly   4   4   weekly   4   w	15	Lobor	69	12	11	263	0	0	weekly	0	0	weekly	Med. kits shared
22 Kangalen         61         11         10         157         0         3 weekly         2         2 weekly           23 Aipa         59         10         10         199         1         1 weekly         1         1 weekly         Med. kits shall           18 Lowus         40         8         8         81         1         0 weekly         weekly         Med. kits shall           27 Napolokoit         216         6         6         216         0         3 weekly         1         1 2/month           7 Loger         108         6         6         176         0         1 weekly         weekly         Med. kits shall           11 Arong         90         4         4         107         0         4 weekly         weekly         Med. kits shall           28 Kakerzia         88         4         4         185         1         0 weekly         1         1 weekly         Med. kits shall           5 Kalle         136         3         3         217         0         0 weekly         1         1 weekly         Med. kits shall           17 Nachelete         24         3         3         73         1         0 weekly         weekly </td <td>30</td> <td>Kakuta</td> <td>90</td> <td>12</td> <td>11</td> <td>257</td> <td>1</td> <td>2</td> <td>weekly</td> <td>0</td> <td>0</td> <td>2/month</td> <td>Med. kits shared</td>	30	Kakuta	90	12	11	257	1	2	weekly	0	0	2/month	Med. kits shared
23 Aipa   59   10   10   199   1   1   weekly   1   1   weekly   Med. kits shall	21	Achuka	57	11	11	153	1	3	weekly	2	2	weekly	
18   Lowus	22	Kangalen	61	11	10	157	0	3	weekly	2	2	weekly	
18   Lowus	23	Aipa	59	10	10	199	1	1	weekly	1	1	weekly	Med. kits shared
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Total 3463 302 292 5827 9 31 15 15													

Safe water points include rainwater tanks.

Ejem<sup>1</sup>, the largest endemic village, is an exception in this case. NR indicates no reports received (Naita community is inaccessible).

<sup>\*</sup> Does not include imported cases.

<sup>\*\*</sup> Medical kits are kept with health promoters. They serve 2 to 3 villages (hamlets) on average.

the reported containment rate of 87% in 1997 clearly did not reflect the true state of case containment then, since incidence was reduced by only 18% between 1997 and 1998. At the regional review meeting for Gambella on November 9, it was reported that "case containment efforts during 1998 were very reliable as compared to...previous years." South Omo and Gambella are the only endemic regions in Ethiopia.

In 1999, the program is receiving increased attention and support from the office of the Prime Minister and the Minister of Health. A regional meeting (South Omo) is scheduled for early February, when a proposal to increase the amount of the reward to induce persons with emergent worms to remain under observation and care, until the worm(s) are manually extracted will be discussed. The purpose of such a reward is to ensure that each case detected is fully contained. A WHO-funded socio-cultural study of people in the endemic area of South Omo has just been completed. It found that 92% of the households surveyed reported that they were using cloth filters. In preparation for the peak transmission season Global 2000/The Carter Center will provide several consultants to this program in collaboration with CDC, beginning just before the peak transmission season this year. Among the major challenges remaining to the Ethiopian program is the need to gain access to suspected endemic areas in parts of Akobo District of Gambella Region and Naita District of South Omo Region, where insecurity has prevented adequate surveys for cases.

#### CAMEROON: NO INDIGENOUS CASES FOR ONE YEAR !!!!



The latest report from the field coordinator of Cameroon's Guinea Worm Eradication Program, <u>Dr. Dama Mana</u>, indicates that 23 cases, all imported from Borno State, Nigeria, were reported during January-October 1998. This report confirms that Cameroon has had no indigenous case of dracunculiasis since October 30, 1997. The patient with emergence of a worm on October 30, 1997 was the only indigenous case reported in Cameroon that year. All 18 other cases in Cameroon in 1997 were imported from Nigeria. With intensified

interventions and active surveillance in neighboring Borno State of Nigeria beginning in October 1997, there is hope that Cameroon will be free of imported cases this year.

#### SUDAN: FILTER COVERAGE LIMITED; INCREASED CASES IN NORTHERN STATES



Provisional reports are that the Sudan Guinea Worm Eradication Program (SGWEP) distributed a record total of over 695,000 cloth filters in 1998, including about 427,000 in areas accessed by Operation Lifeline Sudan (OLS). Still, in the OLS-accessed areas, less than 25% of households in endemic villages are fully covered with filters. Endemic areas accessed by the Government of Sudan (GOS) also are less well covered than they could be if

sufficient filters were available. In OLS-accessed areas, the ratio of household filters distributed to pipe or straw filters is about 4:1. The Carter Center/Global 2000-coordinated effort in OLS-accessed areas shipped over 10.5 metric tons of supplies into southern Sudan in January-November 1998. Provisional data through the end of November reveal a total of 6,493 known endemic villages in Sudan, and Sudan has reported 61% of all cases of dracunculiasis in 1998 so far.

For the first time in three years, the northern states have reported an increase in cases, from 647 cases in January-November 1997 to 806 cases in the same period of 1998 (+24%). Most of the increase is reported from Sennar (+129 cases), and is thought to be the result of increased programmatic activity and improved

#### GUINEA WORM CASE THAT IS NOT CONTAINED

Beginning in January 1999, complete this form for each case of Guinea worm that is not contained, and submit it along with the monthly data reports to the National Coordinator/Secretariat. \_\_\_\_\_ Month of report\_\_\_\_ State \_\_\_ \_\_\_\_\_ Age \_\_\_\_\_ Sex \_\_\_\_ Patient name \_\_\_\_\_Village Volunteer \_\_\_\_ Council Supervisor Council\_ Province Supervisor Province Describe the circumstances that resulted in this case not being contained. See definition below. Specify which criteria were not met and clarify; for example, if the case was detected more than 24 hours after the worm emerged, discuss why you think that happened.\_ In your opinion, what needs to be done to ensure that the next case in this village is contained? What actions have been taken by you, other supervisors, and/or the village volunteer to ensure that the next case in this village is contained? Did the person enter a drinking water source when the blister broke or while the worm was emerging? YES\_\_\_\_\_\_NO \_\_\_\_ If YES, which water source \_ Has it been treated with Abate? YES \_\_\_\_\_ NO \_\_\_\_\_ If YES, date for treatment \_\_\_\_ 5. Have the province and council supervisor for this area and the village volunteer for this village been trained in case containment? YES \_\_\_\_ NO\_\_\_\_. In your opinion, do they understand the steps for case containment? YES \_\_\_\_\_ NO \_\_\_\_\_. Was this case imported into the village in which the worm emerged? YES \_\_\_\_\_ NO \_\_\_\_\_. If YES, complete the import form (even if just from another village in the state). DEFINITION: A case is considered contained if all the following criteria are true: 1. Detected before or within 24 hours of worm emergence. Appropriately bandaged with 24 hours of worm emergence. Education is provided to the patient and family (and others as needed).

- 4. Did not enter a water source (or if entered, the source is treated with Abate within 7 days and filters provided to each household).
- 5. Verified by Supervisor or other reliable source\* within 7 days of detection.
  - \* May include a medical person, community health worker, midwife, or even very well trained, experienced, and reliable village volunteers in cases where it is not practical for a supervisor to be involved.

	ase after the initial bandaging of Guinea worm lesio der observation and providing care of the lesion(s),	1 0
worm(s) are manually extracted.	•	
Name of State Coordinator	Signature of State Coordinator	Date

surveillance in 1998. South Darfur has reported no cases in January-November 1998, despite 100% of known endemic villages reporting, and thus may become the third of the ten northern states to stop endemic transmission. The program aims to stop transmission in all of the northern states by the end of 1999. It has developed a form to be used to report on each uncontained case in the ten northern states (Figure 2), which should help to discover and correct "holes" in the case containment system.

We reported in <u>Guinea Worm Wrap-Up #48</u> (May 1995) on the heroic exploits of the Sudanese sanitarian <u>Mr. Abdul Gadir El Sid</u>, who led a team of workers in the Smallpox Eradication Program to pursue the smallpox virus into Ethiopia. Since 1995, he has been a field consultant to the SGWEP, supported by The Carter Center/Global 2000. We include here an excerpt from his report of an extraordinary trip in pursuit of Guinea worm disease in Jongoli State in October 1998. It is a vivid illustration of the challenges to be overcome in parts of southern Sudan.

"Our boat was in the River Sobat. The entrance to the Jongoli Canal is closed by a broken iron bridge. The boat had to be pulled out and pushed on land for 30 meters and dropped behind the bridge into the canal. More than a hundred persons from the army, police forces and villages came to help. The second obstacle was to make a path through the thick water grass [sudd]. This took six hours for not more than four miles. The danger of being bitten by green snakes during this battle was highlighted to all on board the boat. After sailing for another three hours we reached another grass sudd that took another two hours. The third and fourth sudds consumed one hour each....

It became dark and was dangerous to sail due to floating trunks of drowning trees. All eleven in addition to a woman we picked on our way were so tired and wet, so we decided to stop and spend the night on the boat in the middle of the canal. The land side was unsafe due to wild animals, snakes, or outlaws. In the early hours of the day we went to the bank. Those who traveled on foot before were able to identify some landmarks showing that we were within a few hours from Magok...we had our supplies for Ayod and we had to deliver them to our village volunteers. At the same time we couldn't sacrifice to proceed back and face the water grass by night. And worst of all, our fuel ran short and we had to paddle. That can't be done by so tired and exhausted people....It took us a bit more than two hours. All our clothes were wet to the chest. We were walking in a muddy area with long grass and flood. There was no way to rest or sit down. Mr. Johnson, the previously mentioned Council Executive Officer and an ex-Guinea worm supervisor with RASS, was so surprised and pleased to see us coming to fight Guinea worm in its dreadful home. All villagers who heard the news of our arrival, gathered to welcome our team. Chaps were sent to collect our things from the boat. We were offered a goat to eat. We shared our bread and rice with them...."

The seven tractors donated by AGCO Limited at the request of The Carter Center to provide transportation for the SGWEP in swampy areas are scheduled to arrive at Port Sudan on January 24.

#### NIGERIA CONTINUES TO IMPROVE INTERVENTIONS IN EBONYI & BENUE STATES

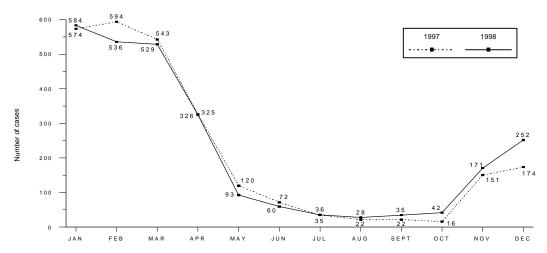


Following the discovery of serious deficiencies in surveillance and interventions in parts of Ebonyi and Benue States in November, the Nigerian program has moved to strengthen active surveillance and interventions in those areas. The latest monthly incidence of dracunculiasis in Ebonyi, Benue and Oyo States is illustrated in Figure 3. Figure 4 shows the distribution of cases of dracunculiasis in the 33 Local Government Areas which

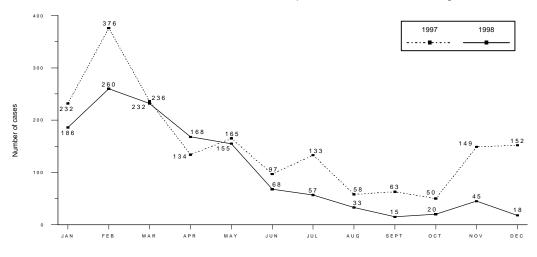
reported 81% of all cases during 1998. An emergency shipment of 10,000 square yards of nylon filter

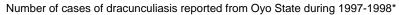
Figure 3 Nigeria Guinea Worm Eradication Program

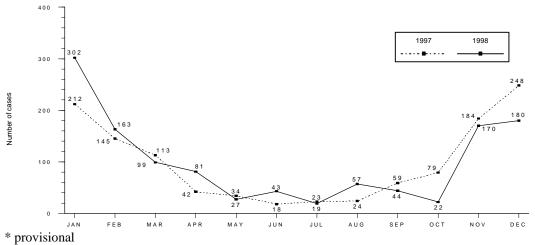
Number of cases of dracunculiasis reported from Ebonyi State during 1997-1998\*



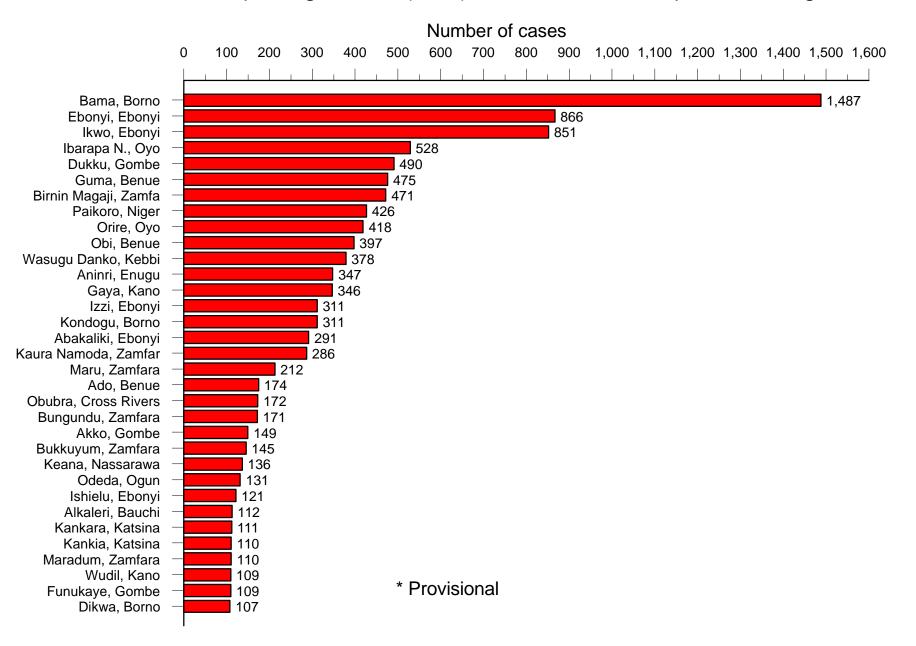
Number of cases of dracunculiasis reported from Benue State during 1997-1998\*







# Nigeria Guinea Worm Eradication Program 33 LGAs reporting 10,858 (81%) of 13,420 cases reported during 1998\*



material (cost: ~US\$38,000) provided by Global 2000 arrived in Lagos on January 7. Two of the four external consultants who assisted the program in October-December 1998 returned to Nigeria in mid January. The Global 2000 RBP in Southeast Zone has loaned 10 motorcycles for use by the Guinea Worm Program in Benue and Ebonyi States until March 1999. In Southwest Zone, <u>Dr. Fola Osigbogun</u> has been appointed deputy zonal facilitator.

In the northern states, Borno alone reported 2,053 (15%) of all cases reported in Nigeria during November 1998. Bama Local Government Area (LGA), the part of Borno State which exported most of the cases reported by Cameroon last year, reported 1,487 cases in 1998. A village-to-village case search began in Bama LGA on December 3rd. UNICEF/Nigeria recently provided a grant of about \$7,700 for use by the program in North East Zone, which includes Borno State. Former President Jimmy Carter will discuss the latest developments in the program with Nigerian Head of State General Abdulsalami Abubakar during a pre-election visit to Nigeria in late January.

#### NIGER EVALUATION HELPS PROGRAM PREPARE FOR 1999



National Program Coordinator Mr. Sadi Moussa has forwarded results of the latest annual evaluation of the Niger GWEP, which was conducted in December 1998. In the endemic villages sampled, over 92% of households had attended a health education session, all had at least one trained village health worker, and 95% of households had a cloth filter.

However, many water sources that should have been treated with Abate were not treated (some sources in 21% of endemic villages were treated), and not all village health workers had medical kits to use in containing individual cases. Supervision of village health workers was judged to be regular, but its quality needed to be improved.

The Niger GWEP reduced cases by only 11%, but it reduced the number of endemic villages by 29%, from 396 endemic villages on 1/1/98 to 282 by 1/1/99. The program is taking steps to ensure that first aid kits are delivered and training is completed before the onset of the rains in 1999, as well as to extend the use of Abate to all appropriate endemic villages and hamlets. The government of Japan will install the remainder of 83 new wells and rehabilitate 68 others in Zinder's Mirriah District during 1999, and has delivered 3 vehicles and other supplies to the Zinder program as a part of the water supply and health education project they are assisting in that highly endemic district. UNICEF has also delivered motorcycles and case containment kits for use by the Niger program. Forty-five thousand square yards of filter material is being purchased through The Carter Center with funding provided by a grant from DANIDA, and USAID/Niger has granted about \$4500 to Global 2000/Niger for use in preparing cloth filters and case containment supplies.

#### MALI, MAURITANIA AND SENEGAL DISCUSS CROSS-BORDER ISSUES



The National Program Coordinators of the GWEPs of Mali (<u>Dr. Issa Degoga</u>) and Mauritania (<u>Dr. Sidi Mohammed</u>) joined the Field Coordinator of Senegal's GWEP (<u>Mr. Georges N'Diaye</u>), representatives of WHO and UNICEF, and a few others in a cross-border meeting in the city of Kayes, Mali on December 17-18. Representing WHO at the

meeting were <u>Dr. Alhousseini Maiga</u> and <u>Dr. Nevio Zagaria</u>. The participants reported on the status of dracunculiasis in their respective countries, particularly in the border areas, and discussed ways to facilitate

communications and learn more about migratory movements of border populations. Senegal has apparently interrupted transmission of dracunculiasis, with no cases reported since July 1997. Mali has reduced its cases by -45% overall in 1998 (-80% in Kayes Region, which adjoins the formerly endemic area of Senegal and currently endemic areas in Mauritania). Mauritania has reported 373 cases in January-November 1998 compared to 388 cases in 1997 (Figure 5).

The meeting also included a thank you ceremony for 20 health workers in Kayes Region who began working in the Guinea Worm Eradication Program of that region in February 1994, with the support of USAID and Global 2000, and were released from service in October 1998. Dr. Zagaria, the Regional Governor, and the Regional Director of Public Health distributed certificates from General Amadou Toumani Toure, thanking them for their service and expressing appreciation for their success (Kayes Region reported only 29 cases in 1998). The health workers thanked General Toure and the program for the experience and for making them a part of the success story. The Regional Governor, who is President of the Regional Intersectorial Group, represented General Toure at the ceremony.

Mr. Michael Ashcroft, a business executive and philanthropist who attended the African Regional Conference on Dracunculiasis Eradication in Bamako last year, has donated \$150,000 to The Carter Center in support of the eradication program in Mali. This follows a gift of \$100,000 made last year by Mr. Ashcroft to assist the global campaign.

#### IN BRIEF:

<u>Burkina Faso</u> successfully completed the final two of three regional workshops in December, and has completed a draft Plan of Action (1999-2000), which is currently under review. A total of 209 villages are known to have reported one or more cases of dracunculiasis in 1998 (vs 211 in 1997). A date for the national workshop and re-launching of the program has not yet been announced.

In <u>Ghana</u>, which achieved a 42% reduction in cases in 1998, Atebubu District (Brong-Ahafo Region) alone accounted for 34% of cases reported by Ghana in October, and 43% of November's cases. Kete Krachi District (Volta Region) reported 14% of November's cases. Overall, 80% of the cases reported in Ghana in November were from only 6 of the country's 110 districts.

<u>Togo</u>'s minister of health announced on national television that Togo is working to stop transmission of dracunculiasis in the country by December 31, 2000. Global 2000 resident advisor in Niger, <u>Mr. Mohammed Salissou Kane</u>, spent a week in Togo in January reviewing the status of Togo's program at the invitation of Togo's national program coordinator, <u>Mr. K. Ignace Amegbo</u>.

#### 36TH INTERAGENCY MEETING HELD AT WORLD BANK HEADQUARTERS

The 36th Meeting of the Interagency Coordinating Group for Dracunculiasis Eradication met at the headquarters of The World Bank in Washington D.C., on January 13, 1999, under the chairmanship of Mr. Bruce Benton. The meeting, which included representatives of The Carter Center/Global 2000, Centers for Disease Control and Prevention, U.S. Peace Corps, the UN Foundation, UNICEF and the World Health Organization (WHO), was also linked by video-conferencing to WHO headquarters in Geneva, Switzerland. Mr. Benton opened the meeting by reporting that The World Bank would like to step up its efforts in support of the dracunculiasis eradication campaign. In a televised message, WHO director-

# PERCENTAGE OF ENDEMIC VILLAGES REPORTING AND PERCENTAGE CHANGE IN NUMBER OF INDIGENOUS CASES OF DRACUNCULIASIS DURING 1997 AND 1998 \*, BY COUNTRY

COUNTRY	ENDEMIC	VILLAGES: 1998	CASES REPORTED		% RED		% CHANGE : 1997 - 1998 % INCREASE						
	NUMBER	% REPORTING	1997	1998	-100 	ı	-50 	I	0	ı	50 	ſ	100
SENEGAL (11)	1	100	4	0	-100								
YEMEN (11)	5	100	7	0	-100								
CHAD (11)	10	100	25	2	-92								
MALI (12)	175	75	1080	606			-44						
GHANA (11)	605	100	7876	4583			-42						
UGANDA (12)	159	99	1359	895			-34	1					
BENIN (12)	150	94	839	680				-19					
ETHIOPIA (12)	41	100	439	359				-18					
NIGER (12)	282	99	3014	2684				-11					
BURKINA FASO (12)**	209	NR	2477	2310				-7					
MAURITANIA (11)**	59	NR	382	373					-2				
COTE D'IVOIRE (12)	174	92	1247	1232					-1				
CAMEROON (10)	1	100	0	0					0				
SUDAN (11)**	6493	33	42777	44042					3	+			
NIGERIA (12)	985	93	11923	12651						7+			
TOGO (12)	203	82	1755	2121						<b>2</b> 1	+		
TOTAL*	9541	58	75870	73308				_	3				
TOTAL (without Sudan )*	3048	96	33093	29266				-12					

<sup>\*</sup> Provisional. Totals do not include imported cases.

<sup>\*\*</sup> Countries with low rate of reporting (< 50%) from endemic villages. Percent reductions are over estimates due to under reporting from endemic villages.

<sup>(8)</sup> Denotes number of months for which reports were received, e.g., Jan. - Aug., 1998

NR Countries with unknown or low rate of reporting.

## Number of cases contained and number reported by month during 1998\* (Countries arranged in descending order of cases in 1997)

											,			_
COUNTRY	Y NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED													
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL*	% CONT
												DECEMBER		COM
SUDAN	465 / 1328	856 / 1254	889 / 1524	1618 / 2627	2135	3580 6058	3433 7428	3374 / 5820	4229 6791	2164 / 5259	731 / 2468	/	23474 / 44042	5
	1544	1188	1199	854	952	953	954	800	412	481	348	499	10184	
NIGERIA	1549	1259	1279	955	1234	1484	1395	1197	659	907	738	764	13420	7
CHANA **	870 / 1278	535 / 709	478	276	208	169	132	40	53 / 67	191 / 214	589	/	3541 / 4599	
GHANA **	7	4	554	42	129	277	178 411	58 378	315	153	670 71	11	1803	7
NIGER	11	4	5	43	168	367	687	575	468	237	116	19	2700	6
	1 ,	1	1	12	122	78	147	71	91	37	7 ,	0	568	
BURKINA FASO	1	6	17	160	295	514	744	212	299	54	8	0	2310	2
	84	22 /	40 /	36	34	63	71	80 /	104	160	184	124	1002	
TOGO	7	109	87 24	49 164	209	83 154	130	131 58	255 45	345	407 10	203	2123 831	4
UGANDA ***	′ <sub>/ 8</sub>	6	43	226	300	176	110	71	43 /	33	10	10 /	1059	
UGANDA ***	151	110	115	65	110	96	32	24	10	33	12	7	765	7
COTE D'IVOIRE	251	138	184	195	158	121	40	39	53	34	13	10	1236	6
	9	2	0	18	4 /	21	41	93	76	41	23	7	335	
MALI	10	<sup>'</sup> 5	′ 0	24	8	63	94	149	101	95	35	26	610	5
	92 /	22 /	10	29	25	10	7 7	10	25	100	195	95 /	620	
BENIN	103	6	10	30 58	26 70	10 87	79	10	7	105	210	104	693	8
ETHIOPIA	1 / 1	6	10 /	60	73	89	/9 / 84	28	7	2 / 2	· / 0	4 / 4	365	9
ETHIOPIA	0	0	0	3	0	1	30	56	44	37	10	4	181	- 9
MAURITANIA	<sup>/</sup> 0	′ 0	<sup>/</sup> 0	4	0	2	44	127	91	93	12	/	373	4
	0	2	0 /	0 /	0 /	0 /	0 /	0 /	0 /	0	,	/	2	
CHAD	0	2	0	0	0	0	0	0	0	′ 0	/	/	2	10
	0 /	0 /	0 /	0 /	0 /	0 /	0 /	0 /	0 /	0 /	0 /	/	0 /	
YEMEN	0	0	0	0	0	0	0	0	0	0	0		0	~
SENEGAL	0	0	0	0	0	0	0	0	0	0	0	/	0	~
CAMEROON ****	0 / 0	0 / 0	0 / 0	0 / 0	1 / 2	4 / 4	8 / 8	5 / 5	2 / 2	, 2	/	/	20 / 23	8
	3231 / 4817	2751	2771	3175 4755	3999	5493	5461 / 10967	5017	5413	3430 / 7380	2180	757	43678	
TOTAL*											4687	1140		5
% CONTAINED	67	78	75	67	66	60	50	60	61	46	47		59	

<sup>\*</sup> PROVISIONAL

<sup>\*\*</sup> Reported 1case imported from Togo in May and 11 in June.

<sup>\*\*\*</sup> Reported 5 cases imported from Sudan in March, 13 in April, 49 in May, 41 in June, 45 in July, 7 in August, 1 in September and 1 in December.

<sup>\*\*\*\*</sup> Reported 2 cases imported from Nigeria in May, 4 in June, 8 in July, 5 in August, 2 in September, and 2 in October.

general <u>Dr. Gro Harlem Brundtland</u> stated that WHO remains "fully committed" to eradicating dracunculiasis, pledged WHO's intention to work more closely with other partners in the program, and urged the agencies to develop a coordinated workplan and plan for mobilization of the necessary resources. She also promised to work with other United Nations agencies to continue to plead for an end to the war in Sudan. WHO's executive director for communicable diseases, <u>Dr. David Heymann</u>, also expressed his views that a unified workplan and advocacy would help, and that dracunculiasis eradication should not be left to the routine health services. Participants reviewed needs and problems of the remaining endemic countries, heard a report on the status of WHO activities regarding certification and pre-certification countries (Cameroon, C.A.R., Chad, India, Kenya, Senegal, Yemen), and discussed plans for conducting the delayed Program Review for francophone countries at Dakar, Senegal.

#### RECENT PUBLICATIONS

Sharma RC, and Biswas G. 1998. Guinea Worm Eradication Programme in India. Report and recommendations of the sixth independent evaluation (January 1998). Delhi: Division of Helminthology, National Institutes of Communicable Diseases, 124 pages.

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.

The GW Wrap-Up is also available on the web at http://www.cdc.gov/ncidod/dpd/list\_drc.htm.



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