

Date: February 15, 1999

From:



WHO Collaborating Center for Research, Training and Eradication of Dracunculiasis

Subject: GUINEA WORM WRAP-UP #87

To: Addresses

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

### BENIN: AIMING TO BREAK TRANSMISSION IN 1999; GLOBAL 2000 PROVIDES EMERGENCY FUNDING

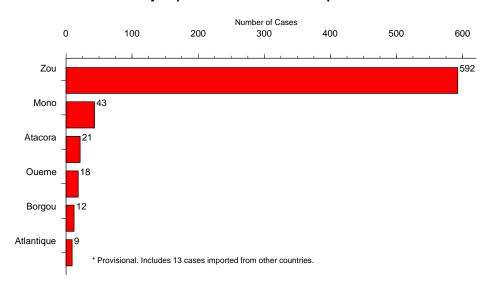


According to data supplied by the national coordinator, <u>Dr. Aristide Paraiso</u>, Benin reported a total of 695 cases of dracunculiasis in 181 endemic villages and hamlets in 1998. This represents a reduction of -19% from the 855 cases reported in 1997, and -15% from the 212 endemic villages and hamlets reported that year. Of the 181 endemic villages in 1998, 95 (52%) had only one case each. <u>Oueme</u>, which was the second-highest endemic department in 1997, reduced its incidence by -84% between 1997 and 1998 (from 110 to 18 cases)! The highest-endemic department, Zou,

only reduced its incidence from 637 cases to 592 cases (-7%) in the same period. Zou Department reported 85% of all cases in 1998 (**Figure 1**). Djidja and Savalou subprefectures in Zou Department reported 56% of all Benin's cases in 1998, and 80% of all cases that year were reported from only 6 of the country's 77 subprefectures: Djidja, Savalou, Ouesse, and Bante in Zou Department, Pobe in Oueme Department, and Aplahoue in Mono Department (**Figure 2**). None of the 21 cases reported in Atacora in 1998 were indigenous to that Department. Six of the cases in Borgou and 2 of Atlantique's cases were imported. The annual numbers of cases reported by Benin in 1993-1998 are: 16,334; 4,302; 2,273; 1,427; 855; and 695, respectively.

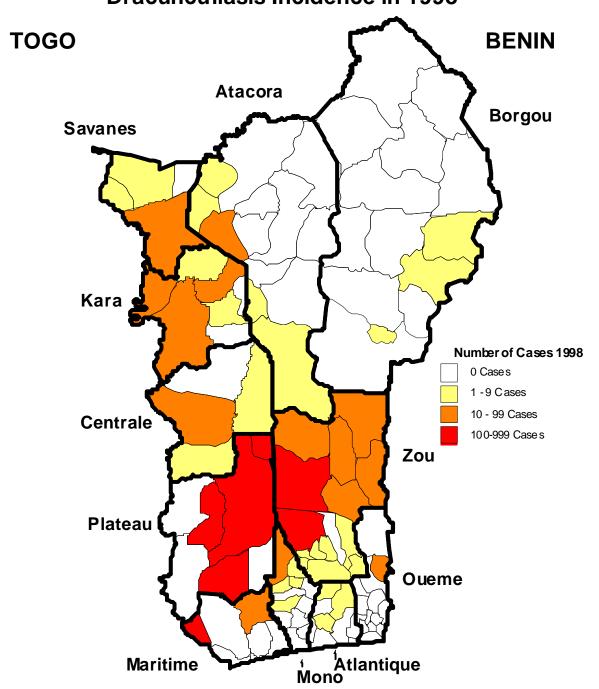
Figure 1

Distribution by Department of 695 Cases Reported



Togo & Benin Guinea Worm Eradication Programs

Dracunculiasis Incidence in 1998



### **GHANA GUINEA WORM ERADICATION PROGRAM** NUMBER OF CASES REPORTED BY REGION: 1996

| REGION                     | JAN | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEPT | OCT | NOV | DEC | TOTAL |
|----------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|-------|
| Western 3                  | 11  | 9   |     |     |     |      |      |     |      |     |     |     | 24    |
| Central                    | 42  | 31  | 23  | 21  | 8   | 12   | 7    | 10  | 13   | 13  | 9   | 9   | 198   |
| Eastern 5                  | 4   | 24  | 5   | 4   | 11  | 9    | 2    | 6   | 17   |     |     |     | 102   |
| Greater Accra <sup>1</sup> |     |     | 5   |     |     |      |      |     |      |     |     |     | 18    |
| Volta                      | 51  | 34  | 34  | 34  | 11  | 46   | 17   | 14  | 27   | 24  | 49  | 77  | 418   |
| Ashanti                    | 4   |     | 6   |     |     | 17   |      |     |      |     |     | 22  | 49    |
| Brong Ahafo                | 17  | 20  | 16  | 5   |     | 5    |      |     | 3    |     | 27  | 12  | 105   |
| Northern                   | 475 | 741 | 632 | 470 | 456 | 265  | 204  | 66  | 26   | 29  | 164 | 374 | 3902  |
| Upper West 4               | 4   |     |     |     | 10  | 24   |      |     |      |     |     |     | 39    |
| Upper East <sup>2</sup>    |     |     |     |     |     |      |      |     |      |     |     |     | 22    |
| TOTAL                      | 611 | 863 | 728 | 535 | 502 | 386  | 235  | 100 | 87   | 68  | 263 | 499 | 4,877 |

- <sup>1</sup> Greater Accra reported 3 imported cases in Jan., 2 in Feb., 4 in May, 1 in June, 2 in Aug., and 1 in Dec. <sup>2</sup> Upper East reported 2 imported cases in Feb., 7 in March, 2 in May, 7 in June, 2 in July, and 2 in Aug.. <sup>3</sup> Western reported 3 imported cases July, and 1 in Sept.. <sup>4</sup> Upper West reported 1 imported cases in April. <sup>5</sup> Eastern reported 2 imported cases in Oct., 14 in Nov., and 4 in Dec..

- Denotes zero indigenous cases reported.

#### **NUMBER OF CASES REPORTED BY REGION: 1997**

| REGION                     | JAN   | FEB   | MAR   | APR | MAY | JUNE | JULY | AUG | SEPT | OCT | NOV | DEC   | TOTAL |
|----------------------------|-------|-------|-------|-----|-----|------|------|-----|------|-----|-----|-------|-------|
| Western 1                  | 9     | 6     |       |     |     |      |      |     |      |     |     |       | 19    |
| Central                    | 3     | 44    | 38    | 14  | 22  | 13   | 1    | 8   | 11   | 27  | 14  | 21    | 216   |
| Eastern 2                  | 15    | 10    | 9     | 10  | 8   |      |      |     |      | 5   | 16  | 8     | 86    |
| Greater Accra <sup>3</sup> |       |       |       |     |     |      |      |     |      |     |     |       | 26    |
| Volta                      | 37    | 386   | 145   | 90  | 70  | 86   | 84   | 38  | 34   | 63  | 249 | 179   | 1461  |
| Ashanti 4                  | 26    |       | 33    |     |     |      |      |     |      |     |     |       | 116   |
| Brong Ahafo                | 24    | 23    | 15    | 36  | 19  | 13   | 10   | 18  |      | 33  | 296 | 435   | 922   |
| Northern                   | 1560  | 1113  | 975   | 720 | 523 | 246  | 176  | 32  | 8    | 31  | 223 | 382   | 5989  |
| Upper West 5               |       | 35    | 7     | 9   | 3   |      | 1    |     | 8    |     |     |       | 77    |
| Upper East 6               |       |       |       |     |     |      |      |     |      |     |     |       | 9     |
| TOTAL                      | 1,685 | 1,625 | 1,226 | 909 | 652 | 376  | 274  | 97  | 69   | 162 | 808 | 1,038 | 8,921 |

- <sup>1</sup> Western reported 1 imported case in Mar., 1 in May, and 2 in Sept.
- $^{\rm 2}$  Eastern reported 2 imported cases in Jul. and 3 in Sept.
- <sup>3</sup> Greater Accra reported 2 imported cases in Feb., 3 in Mar., 7 in May, 2 in Apr., 6 in Jun., 3 in Oct., and 3 in Nov.
- <sup>4</sup> Ashanti reported 1 imported case in Feb., 23 in Apr., 2 in May, 10 in Jun., 3 in Sept., 6 in Nov., and 12 in Dec.
- $^{\rm 5}$  Upper West reported 10 imported cases in Jan. and 1 each in June, Aug., Nov. and Dec.
- <sup>6</sup> Upper East reported 1 imported case in Jan., 5 in Feb., 2 in May, and 1 in June.
- Denotes zero indigenous cases reported.

### **NUMBER OF CASES REPORTED BY REGION: 1998**

| REGION                     | JAN   | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEPT | OCT | NOV | DEC | TOTAL |
|----------------------------|-------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|-------|
| Western <sup>6</sup>       |       |     |     |     |     |      |      |     |      |     |     |     | 4     |
| Central                    | 5     | 4   | 4   | 2   | 5   | 1    | 3    | 7   | 8    | 15  | 4   | 4   | 62    |
| Eastern 1                  | 15    | 9   |     |     | 21  | 15   | 10   | 3   |      |     |     | 36  | 121   |
| Greater Accra <sup>2</sup> |       |     |     |     |     |      |      |     |      |     |     |     | 33    |
| Volta                      | 223   | 129 | 87  | 47  | 75  | 35   | 51   | 20  | 36   | 32  | 152 | 212 | 1099  |
| Ashanti 3                  |       |     |     |     |     |      |      |     |      |     |     |     | 64    |
| Brong Ahafo                | 232   | 125 | 47  | 124 | 57  | 19   | 13   | 13  | 14   | 79  | 294 | 278 | 1295  |
| Northern                   | 778   | 430 | 392 | 191 | 87  | 135  | 79   | 13  | 6    | 86  | 234 | 274 | 2705  |
| Upper West 4               | 4     |     | 7   | 7   | 11  | 13   | 13   |     |      |     |     |     | 62    |
| Upper East 5               |       |     |     |     |     |      |      |     |      |     |     |     | 28    |
| TOTAL                      | 1,278 | 709 | 554 | 382 | 263 | 226  | 178  | 58  | 67   | 214 | 710 | 834 | 5,473 |

- <sup>1</sup> Eastern reported 4 imported cases in March, 1 in Sept., and 7 in Nov..
- <sup>2</sup> Greater Accra reported 9 imported cases in Feb., 12 in March,5 in April, 2 June,1 in Aug., 3 in Nov. and 6 in Dec..
- <sup>3</sup> Ashanti reported 21 imported case in Jan., 2 in Feb., 5 in April, 7 in May, 4 in June, 4 in July, 2 in Oct., 13 in Nov., and 6 in Dec..
- <sup>4</sup> Upper West reported 1 imported case in Feb., 1 in Aug., 2 in Sept., and 15 in Dec..
- $^{\rm 5}$  Upper East reported 1 imported case in March, 6 in April, 2 in June, 1 in July, 3 in Nov. and 3 in Dec..
- <sup>6</sup> Western reported 4 imported cases in July.
- Denotes zero indigenous cases reported.

Benin's target is to interrupt all transmission of dracunculiasis in 1999. As in some other countries, the high rate of reported case containment in 1997 (85%) was not reflected in overall reduction of cases in 1998 (-19%), but Oueme Department clearly shows what Benin's Guinea Worm Eradication Program can do. This program improved distribution of cloth filters and use of Abate in 1998, although bandaging of cases was infrequent during most of the year. Global 2000/The Carter Center has provided almost \$30,000 in emergency funding for this program over the past two months, because of delays in expected support from other sources. These funds are helping the Benin program to prepare cloth filters, provide supervision, and maintain its secretariat during the current peak transmission season. Global 2000 also provided Mr. Harry Godfrey for a one month return consultation in January-February. The Government of Benin has agreed to provide approximately 40 million FCFA (~\$61,000) later this year for transportation and health education.

### FIVE OF GHANA'S TEN REGIONS HAVE NO INDIGENOUS CASES IN SEPTEMBER-DECEMBER 1998



As indicated in **Figure 3**, five of the ten regions of Ghana reported no indigenous cases during the four month period of September-December 1998, which includes two months of Ghana's peak transmission season (November-April). Four regions (Western, Greater Accra, Ashanti, Upper East) reported no indigenous cases in all of 1998. In 1998, 94% of Ghana's cases were reported from Northern, Brong-Ahafo, and Volta Regions. World Vision began drilling in the first week of

February to provide safe drinking water for the town of Savelugu, in Northern Region. Ghana, which remains the third-highest endemic country, after Sudan and Nigeria, is aiming to stop all transmission of dracunculiasis by the end of this year.

### NIGERIA STEERING COMMITTEE MEETS; NEW "GUINEA WORM CLOTH"



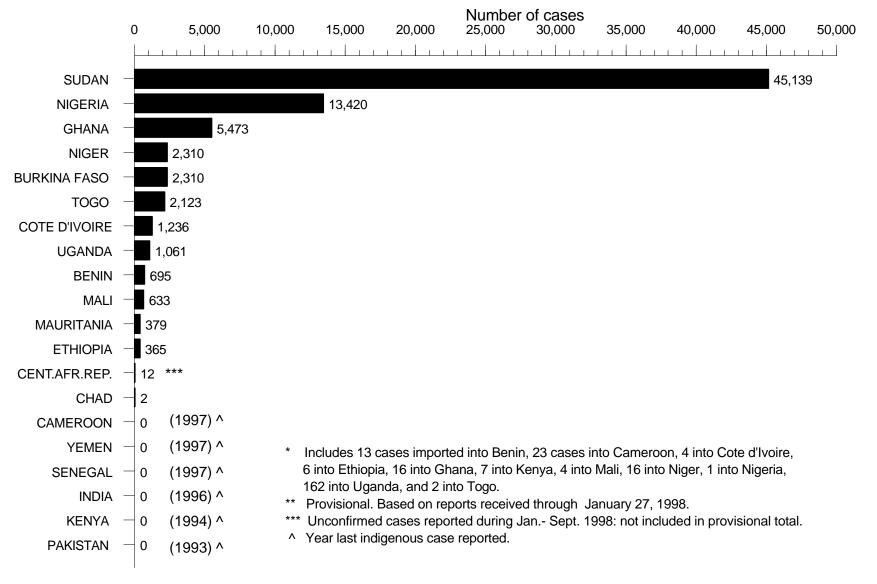
The Steering Committee of Nigeria's Guinea Worm Eradication Program (NGEP) met in Jos, Plateau State, on February 1, under the chairmanship of National Program Coordinator Dr. K.A. Ojodu. Dr. Ernesto Ruiz-Tiben, the technical director for Dracunculiasis Eradication Program, Global 2000 / The Carter Center, participated in the meeting, as did the chief of UNICEF/ Nigeria's Water and Environmental Sanitation Section, Mr. Mansoor M. Ali, and Global 2000 country representative Dr. Emmanuel S. Miri, and the four zonal facilitators. The group reviewed plans and control measures being taken during the peak transmission season in Southeast and Southwest Key concerns are the need for improving execution of interventions and active surveillance in endemic villages of those two Inadequate transport for field supervisors is still a major constraint, and Guinea worm vehicles that are being used primarily or exclusively for other purposes in Benue, Cross River and Enugu States need to be returned to the Guinea worm program. UNICEF / Nigeria

offered to provide plastic funnels and Global 2000 the nylon cloth needed to fabricate 20,000 funnel filters for distribution mostly in the SE and SW Zones. The latest shipments of Abate and filter material have been cleared from the port. At the steering committee meeting, NIGEP began distributing two Nigerian versions of "Guinea Worm Cloth", the pattern of which is reproduced here. Global 2000 provided \$10,000 to support development of the pattern and purchase of the first 10,000 meters of the new cloth, and the Federal Ministry of Health plans to purchase an additional equal amount. NIGEP will observe National Guinea Worm Eradication Week this year on March 21-25.

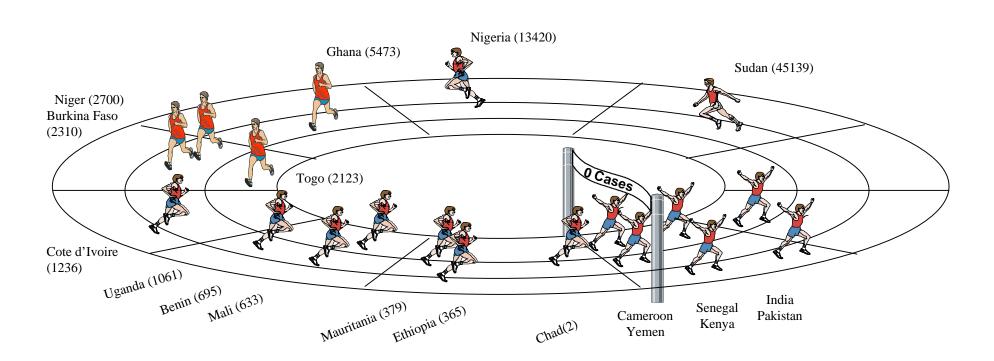
Provisional reports show a total of 1,358 cases in Nigeria in January 1999, of which 596 (44%) were contained. This represents a reduction of 12% from the 1,549 cases reported in January 1998. The low rate of case containment is mainly due to more accurate reporting of case containment rates in Southeast Zone, which reported 1,020 of the cases, and containment of 353 (35%). Ebonyi (662), Benue (208) and Oyo (158) States reported 1,028 (76%) of the cases in January.

Figure 4

## Distribution by Country of 75,564\* Cases of Dracunculiasis Reported During 1998\*\*



# GUINEA WORM RACE 1998! WHO WILL JOIN THE WINNERS IN 1999?



Number of cases contained and number reported by month during 1998\*

(Countries arranged in descending order of cases in 1997)

|                    |  |          |          |                   |                   |                   |               |           |                   |                   |             |          |                     | Т          |
|--------------------|--|----------|----------|-------------------|-------------------|-------------------|---------------|-----------|-------------------|-------------------|-------------|----------|---------------------|------------|
| COUNTRY            | NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED |          |          |                   |                   |                   |               |           |                   |                   |             |          |                     |            |
|                    | JANUARY  | FEBRUARY | MARCH    | APRIL             | MAY               | JUNE              | JULY          | AUGUST    | SEPTEMBER         | OCTOBER           | NOVEMBER    | DECEMBER | TOTAL*              | %<br>CONT. |
|                    | 465  | 856      | 889      | 1618              | 2135              | 3580              | 3433          | 3374      | 4242              | 2344              | 1111        | 227      | 24274               |            |
| SUDAN              | 1328   | 1254     | 1524     | 2627              | 3485              | 6058              | 7432          | 5820      | 6814              | 5500              | 2974        | 323      | 45139               | 54         |
| SCDAIN             | 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               | 76         |
|                    | 870  | 535      | 478      | 276               | 208               | 169               | 132           | 40        | 53                | 191               | 620         | 608      | 4180                |            |
| GHANA **           | 1278   | 709      | 554      | 382               | 263               | 226               | 178           | 58        | 67                | 214               | 710         | 834      | 5473                | 76         |
|                    | 7 /  | 4 /      | 5 /      | 42                | 129               | 277               | 411           | 378       | 315               | 153               | 71          | 11       | 1803                |            |
| NIGER              | 11   | 4        | 5        | 43                | 168               | 367               | 687           | 575       | 468               | 237               | 116<br>7    | 19       | 2700                | 67         |
|                    | 1 /  | - /      | - /      | 12                | 122               | 78                | 147           | 71        | 91                | 37                | /           | 0 /      | 568                 |            |
| BURKINA FASO       | 84   | 6 22     | 17<br>40 | 160<br>36         | 295<br>34         | 514<br>63         | 744           | 212<br>80 | 299<br>104        | 54<br>160         | 8<br>184    | 124      | 2310<br>1002        | 2.5        |
| TOGO               | 277  | 109      | 87       | 49                | 47                | 83                | 130           | 131       | 255               | 345               | 407         | 203      | 2123                | 47         |
| 1000               | 7  | 3        | 24       | 164               | 209               | 154               | 116           | 58        | 45                | 31                | 10          | 12       | 833                 | 47         |
| UGANDA ***         | 8  | 6        | 43       | 226               | 300               | 176               | 128           | 71        | 48                | 33                | 10          | 12       | 1061                | 79         |
|                    | 151  | 110      | 115      | 65                | 110               | 96                | 32            | 24        | 10                | 33                | 12          | 7        | 765                 |            |
| COTE D'IVOIRE      | 251  | 138      | 184      | 195               | 158               | 121               | 40            | 39        | 53                | 34                | 13          | 10       | 1236                | 62         |
|                    | 9 /  | 2        | 0 /      | 18                | 4                 | 21                | 41            | 93        | 76                | 41                | 31          | 7        | 343                 |            |
| MALI               | 10   | 5        | 0        | 24                | 8                 | 63                | 94            | 149       | 101               | 95                | 57          | 27       | 633                 | 54         |
|                    | 92   | 22       | 10       | 29                | 25                | 10                | 7 /           | 10        | 25                | 100               | 197         | 95       | 622                 |            |
| BENIN              | 103  | 6        | 10       | 30<br>58          | 26<br>70          | 10                | 79            | 10<br>28  | 7                 | 105               | 0 212       | 104      | 695<br>352          | 89         |
| ETHODIA            | ٠,,  | /        | /        | 60                | /                 | 89                | 84            | 28        | 7                 | 2 / 2             | /           | 4 / 4    | /                   | 96         |
| ETHIOPIA           | 0  | 0        | 0        | 3                 | 73                | 1                 | 30            | 56        | 44                | 37                | 13          | 3        | 365<br>187          | 90         |
| MAURITANIA         | 0  | 0        | 0        | 4                 | 0                 | 2                 | 44            | 127       | 91                | 93                | 15          | 3        | 379                 | 49         |
|                    | 0  | 2        | 0        | 0                 | 0                 | 0                 | 0             | 0         | 0                 | 0                 | 0           | 0        | 2                   |            |
| CHAD               | 0  | 2        | 0        | 0                 | 0                 | 0                 | 0             | 0         | 0                 | 0                 | 0           | 0        | 2                   | 100        |
|                    | 0 /  | 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        | 0                   | ~          |
|                    | 0 /  | 0 /      | 0 /      | 0 /               | 0 /               | 0 /               | 0 /           | 0 /       | 0 /               | 0 /               | 0 /         | 0 /      | 0 /                 |            |
| SENEGAL            | 0  | 0        | 0        | 0                 | 0                 | 4                 | 8             | 5         | 2                 | 0                 | 0           | 0        | 20                  | ~          |
| CAMEROON 1         | 0  | 0        | 0        | 0                 | 2                 | 4                 | 8             | 5         | 2 / 2             | 0                 | 0           | 0        | 20 / 21             | 95         |
| KENYA <sup>2</sup> | /  | /        | /        | /                 | /                 | 3 / 3             | 3 / 3         | 1 / 1     | /                 | /                 | /           | /        | 7 7                 | 100        |
| TOTAL*             | 3231<br>/<br>4817                                    | 2751     | 2771     | 3175<br>/<br>4755 | 3999<br>/<br>6059 | 5496<br>/<br>9200 | 5464<br>10974 | 5018      | 5426<br>/<br>8905 | 3610<br>/<br>7619 | 2604 / 5260 | 1597     | 45142<br>/<br>75564 | 60         |
|                    |  |          |          |                   |                   |                   |               |           |                   |                   |             |          |                     | 60         |
| % CONTAINED        | 67   | 78       | 75       | 67                | 66                | 60                | 50            | 60        | 61                | 47                | 50          | 69       | 60                  |            |

<sup>\*</sup> PROVISIONAL

<sup>1</sup> All cases reported during 1998 were imported from Nigeria.

<sup>&</sup>lt;sup>2</sup> All cases reported during 1998 were imported from Sudan.

Figure 6

### 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 D | EPORTED | % RED    | DUCTIC | %<br>)N | % CHANGE : 1997 - 1998<br>% INCREASE |        |    |        |   |         |  |
|-------------------------|------------------------|-------------|---------|---------|----------|--------|---------|--------------------------------------|--------|----|--------|---|---------|--|
| 555,111.1               | NUMBER                 | % REPORTING | 1997    | 1998    | -100<br> | ı      | -50<br> | ı                                    | 0<br>1 | ı  | 50<br> | 1 | 100<br> |  |
| SENEGAL (12)            | 1                      | 100         | 4       | 0       | -100     |        |         |                                      |        |    |        |   |         |  |
| YEMEN (12)              | 5                      | 100         | 7       | 0       | -100     |        |         |                                      |        |    |        |   |         |  |
| CHAD (12)               | 10                     | 100         | 25      | 2       | -92      |        |         |                                      |        |    |        |   |         |  |
| MALI (12)               | 177                    | 78          | 1080    | 629     |          |        | -42     |                                      |        |    |        |   |         |  |
| GHANA (12)              | 625                    | 100         | 8914    | 5457    |          |        | -39     |                                      |        |    |        |   |         |  |
| UGANDA (12)             | 164                    | 100         | 1359    | 899     |          |        | -34     |                                      |        |    |        |   |         |  |
| BENIN (12)              | 181                    | 94          | 839     | 680     |          |        |         | -19                                  |        |    |        |   |         |  |
| ETHIOPIA (12)           | 41                     | 100         | 439     | 359     |          |        |         | -18                                  |        |    |        |   |         |  |
| NIGER (12)              | 282                    | 100         | 3014    | 2684    |          |        |         | -11                                  |        |    |        |   |         |  |
| BURKINA FASO (12)       | 209                    | NR          | 2477    | 2310    |          |        |         | -7                                   |        |    |        |   |         |  |
| MAURITANIA (12)         | 57                     | NR          | 388     | 379     |          |        |         | -                                    | 2      |    |        |   |         |  |
| COTE D'IVOIRE (12)      | 174                    | 92          | 1247    | 1232    |          |        |         | -                                    | 1      |    |        |   |         |  |
| CAMEROON (12)           | 1                      | 100         | 0       | 0       |          |        |         |                                      | Ю      |    |        |   |         |  |
| SUDAN (12)              | 6477                   | 33          | 43596   | 45139   |          |        |         |                                      | 4      | +  |        |   |         |  |
| NIGERIA (12)            | 1067                   | 93          | 12589   | 13419   |          |        |         |                                      | 7      | 7+ |        |   |         |  |
| TOGO (12)               | 203                    | 82          | 1755    | 2121    |          |        |         |                                      |        | 21 | +      |   |         |  |
| TOTAL*                  | 9658                   | 57          | 77733   | 75310   |          |        |         | -                                    | 3      |    |        |   |         |  |
| TOTAL (without Sudan )* | 3181                   | 96          | 34137   | 30171   |          |        |         | -12                                  |        |    |        |   |         |  |
|                         |                        |             |         |         |          |        |         |                                      | I      |    |        |   |         |  |

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

<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.

### KENYA: SEVEN CASES IMPORTED FROM SUDAN



According to reports by the International Committee of the Red Cross (ICRC) Hospital in Lopiding, Kenya, seven patients with dracunculiasis who were imported into Kenya from Sudan were seen at that hospital in 1998:

| Sex    | Age | Village of Origin | Date Worm Emerged |
|--------|-----|-------------------|-------------------|
| Male   | 28  | Panyagor          | 1 July 1998       |
| Male   | 20  | Boma              | 7 July 1998       |
| Male   | 35  | Tonj              | June 1998         |
| Female | 20  | Gogriel           | 29 June 1998      |
| Male   | 35  | Gogriel           | June 1998         |
| Male   | 17  | Rumbeck           | 12 July 1998      |
| Male   | 35  | Tonj              | 12 August 1998    |

### IN BRIEF:

Ethiopia. The regional review meeting for South Omo was held on February 9 at Jinka. Participants included regional health officials, staff from the national Dracunculiasis Eradication Program, and in-country representatives of WHO and Global 2000 / The Carter Center. Also attending were Mr. Elvin Hilyer, Global 2000 resident technical advisor in Khartoum; and Dr. Jason Weisfeld, Global 2000 consultant to the program in South Omo. Participants reviewed the recent slow progress of the program, and preparations for the ensuing peak transmission season. The review ended with several recommendations to the program in South Omo. Ethiopia reported zero cases in January 1999, which is the second month in which no cases were reported since the program began (zero cases were reported for the first time in November 1998).

<u>Mauritania</u>. According to a report provided to the minister of health and social affairs by UNICEF, Mauritania reduced the number of endemic villages and localities by 36% in 1998, from 87 villages and localities in 1997 to 57 in 1998. A single locality in Hodh Chargui wilaya (district) reported 119, or 33% of all cases in Mauritania in 1998. UNICEF is rehabilitating water sources to provide safe drinking water in that village. Mauritania is aiming to interrupt transmission of dracunculiasis in 1999.

<u>Niger</u>. During a visit to Zinder Department in January, <u>President Ibrahim Mainassara Bare</u> of Niger referred to the progress being made there against Guinea worm disease, meningitis, measles and whooping cough. The president's speech was broadcast on national radio and television. April 25 will be celebrated as National Guinea Worm Eradication Day this year.

<u>Sudan.</u> The Federal State Minister for Health, <u>Dr. Thomas Abwal Chidi</u>, issued a challenge to representatives of the endemic northern states of Sudan, which are aiming to stop transmission of dracunculiasis by the end of 1999: "Elimination of Guinea worm this year will not happen without your full commitment. The worm has been with us for centuries, and it knows how to survive - just get into the drinking water. We have now learned its tricks, and we are smarter than it is. I am calling upon you to demonstrate that intelligence in your state beginning now, and for the remainder of this year."

<u>Togo.</u> The minister of health has sent an official letter to all the Medecin-chefs, stating that Guinea worm disease must be eradicated by December 2000. <u>Mr. Chris Duggar</u> has completed a three month long consultation to this program, with support provided by Global 2000 and Health and Development International.

<u>Uganda</u>. Uganda Guinea Worm Eradication Program held an inter-district meeting of 5 remaining endemic districts from 15 to 16<sup>th</sup> February 1999 in Kotido town. Addressing a well-attended meeting of about 150 people comprising Local district leaders, sub county guinea worm supervisors, district health teams, water officers and district Administrators from Kotido, Moroto, Kitgum, Gulu and Arua, the Minister of State for Health <u>Dr. P. Byaruhanga</u> appealed to district political leaders and administrators to support field workers to interrupt guinea worm transmission cycle this year. He called upon the Programme to eradicate Guinea worm this year. Accompanying the Minister were representatives of UNICEF and WHO, <u>Mr. Bill Fellows</u> and <u>Dr. Josephine Namboze</u> respectively, who echoed the same call to accomplish eradication as soon as possible.

The objectives of the meeting were to solicit political support and commitment both from central and local governments and to formulate the strategies to lead the program in the final assault to eradication.

Before the meeting started about 3 hours were spent visiting four highly endemic sub-counties of Kotido.

Several recommendations were made. Of particular interest were those made by local leaders who resolved to support the program by committing themselves to do the following:

- For every sub-county to allocate some funds in their budget to Guinea worm eradication.
- To form village committees to look after every water source for maintenance and protection.
- To have a caretaker constantly guarding a water source who should never allow a person with an emerging worm to step in a pond and to ensure that everyone filters water at source.
- To constantly conduct inter-district meetings to address the insecurity problem between the nomadic Karamoja herdsmen and neighbouring districts. The first meeting was to be held on 17<sup>th</sup> February 1999 at the border Kalongo in Kitgum to be attended by district political heads (Local Council-5 Chairman), security secretaries, Guinea worm district co-ordinators, and 4 Guinea worm Sub-county supervisors per district.
- To involve many leaders in verification of Guinea worm cases for reward system that is to be introduced in Karamoja in July this year.

UGWEP's target is to interrupt Guinea Worm transmission cycle this year.

### RECENT PUBLICATIONS

Peries H, de Rooy C, Nwe Y,. 1998. Monitoring and evaluation of Guinea Worm Eradication. <u>Evaluation</u> & Program Planning. 21(4): 393-408.

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

In memory of BOB KAISER.

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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.