ONCHOCERCIASIS CONTROL

IN THE

VOLTA RIVER BASIN AREA

Report
prepared for the Governments of
Dahomey, Ghana, Ivory Coast, Mali, Niger
Togo and Upper Volta

ANNEX IV-3: ATLAS OF ONCHOCERCIASIS - PREVALENCE AND BLINDNESS
IN THE VOLTA RIVER BASIN AREA

Geneva
1973
Programme des Nations Unies pour le Développement
Organisation pour l'Alimentation et l'Agriculture des Nations Unies
Banque Internationale pour la Reconstruction et le Développement
Organisation Mondiale de la Santé
All available data on the prevalence of onchocerciasis and frequency of blindness, together with the exact geographical position (longitude and latitude) of the villages and towns from where they were obtained, were coded and transferred to an IBM 371/55 computer for storage and analysis. Of a total of approximately 10 million inhabitants, more than half the population in the programme area had been covered by studies on onchocerciasis. A special mapping programme using the Calcomp plotter\(^1\) made it possible to print computerized maps corresponding to a 1:1 000 000 scale where the precise geographical location of each of the 2407 population units surveyed was marked together with the prevalence of infection and, if available, the frequency of blindness. These prevalence data were then transferred to a standard map indicating the main geographical and political features (rivers, borders, cities, etc.). The percent coverage of administrative sub-areas by surveys was calculated and is shown graphically by type and degree of shading.

For easy use, the map of the entire programme area was divided into 14 sections of three degree latitude and two degree longitude. The atlas shows on one page, the prevalence of onchocerciasis and, on the opposite, the frequency of blindness.

Although the atlas contains all of the data available at the end of June 1973, the computer mapping programme is flexible and permits continuous updating on the basis of incoming information. This programme will eventually be extended to other parts of Africa in which the disease is endemic.

\(^{1}\) California Computer Products, Inc.
PREVALENCE OF ONCHOCERCIASIS AND BLINDNESS
RECAPITULATIVE SCHEME OF THE 28 FIGURES HERE AFTERTHE NUMBER 1,3,5,7,9,11,13,15,17,19,21,23,25,27 FOR ONCHOCERCIASIS
AND 2,4,6,8,10,12,14,16,18,20,22,24,26,28 FOR BLINDNESS

PREVALENCE DE L'ONCHOCERCOSE ET DE LA CÉCITÉ
SCHEMA RECUPITULATIF DES 28 FIGURES CI-APRES
( NUMÉROS 1,3,5,7,9,11,13,15,17,19,21,23,25,27 POUR L'ONCHOCERCOSE
ET 2,4,6,8,10,12,14,16,18,20,22,24,26,28 POUR LA CÉCITÉ)

PREVALENCE OF ONCHOCERCIASIS - PREVALENCE DE L'ONCHOCERCOSE
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PREVALENCE OF ONCHOCERCIASIS AND BLINDNESS

PREVALENCE DE L’ONCHOCERCOSIS ET DE LA CECITÉ

LEGEND
LEGENDE

2 - 25%  
25 - 50%  
50 - 75%  
> 75%

Population visited - (1970 Census)  
Population visitée - (Recensement de 1970)

Sporadic cases - Cas sporadiques  
Hypoendemic - Hypoendémiques  
Mesoendemic - Mesoendémiques  
Hyperendemic - Hyperendémiques

Country border - Frontière  
River - Rivière  
Town - Ville

LEGEND
LEGENDE

△ (0 - <10%)  
○ (≥10 - <40%)  
● (≥40 - <70%)  
◆ (≥70%)

Sporadic cases - Cas sporadiques  
Hypoendemic - Hypoendémiques  
Mesoendemic - Mesoendémiques  
Hyperendemic - Hyperendémiques

Country border - Frontière  
River - Rivière  
Town - Ville

PREVALENCE OF ONCHOCERCIASIS - PREVALENCE DE L’ONCHOCERCOSIS
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FIGURE: IV-3.1

PREVALENCE OF ONCHOCERCIASIS - PREVALENCE DE L'ONCHOCERCOSÉ
PREVALENCE OF BLINDNESS - PREVALENCE DE LA CECITE

FIGURE: IV-3.6
PREVALENCE OF BLINDNESS - PREVALENCE DE LA CECITE

FIGURE: IV-3. 8
FIGURE: IV-3. 12
PREVALENCE OF BLINDNESS - PREVALENCE DE LA CECITE
PREVALENCE OF ONCHOCERCIASIS - PREVALENCE DE L'ONCHOCERCOSIS

FIGURE: IV-3, 13
PREVALENCE OF ONCHOCERCIASIS - PREVALENCE DE L'ONCHOCERCose

FIGURE: IV-3.17
PREVALENCE OF BLINDNESS - PREVALENCE DE LA CECITE

FIGURE: IV.3.20
FIGURE IV-3. PREVALENCE OF BLINDNESS - PREVALENC DE LA CECITE
PREVALENCE OF BLINDNESS - PREVALENCE DE LA CECITE

FIGURE: IV-3, 26
PREVALENCE OF BLINDNESS - PREVALENCE DE LA CECITE

FIGURE IV-3. 28