



INTER-REGIONAL SEMINAR ON SMALLPOX ERADICATION

Lagos, Nigeria, 13-20 May 1969

COUNTRY REPORT



INDEXED

1.0 DEMOGRAPHIC DATA

1.1 Estimated population (July 1969)

Age	
0-4	390 225
5-14	462 825
15-44	704 220
45+	257 730
TOTAL	1 815 000

1.2 Population by geographic subdivision (Table 1)

1.3 Population density by geographic subdivision (Table 1)

1.4 Population density by geographic subdivision (Figure 1)

2.0 SMALLPOX INCIDENCE AND VACCINATION DATA

2.1 Smallpox cases by month and geographic subdivision - Jan. 1968 - Feb. 1969 (Table 2)

2.2 Location of smallpox outbreaks.

Oct. 68 - Dec. 68 (Figure 2)

Jan. 69 - Feb. 69 (Figure 3)

2.3 Incidence rates per 100 000 population by geographic subdivision and by quarter.

Jan. 68 - Mar. 68 (Figure 4)

Apr. 68 - Jun. 68 (Figure 5)

Jul. 68 - Sep. 68 (Figure 6)

Oct. 68 - Dec. 68 (Figure 7)

Jan. 69 - Feb. 69 (Figure 8)

2.4 Monthly distribution of smallpox cases by age and sex - Jan. 1969 - Feb. 1969

(Table 3)

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2.5 Smallpox vaccinations performed by quarter and geographic subdivision - January 1968 through February 1969 (Table 4)

2.6 Areas vaccinated since inception of the programme (Figure 9)

2.7 Smallpox vaccination targets by geographic subdivision - July 1969 through June 1970 (Table 5)

2.8 Method for recording of vaccinations:

Tally sheet: Yes  No

Other registry system (specify) \_\_\_\_\_

2.9 Youngest age for beginning smallpox vaccination:

Birth  6 months  Other \_\_\_\_\_

3.0 MEASLES INCIDENCE AND VACCINATION DATA (for countries engaged in measles vaccination programmes)

3.1 Reported measles cases by month and geographic subdivision (Table 6)

3.2 Measles immunizations by quarter and geographic subdivision (Table 7)

3.3 Areas vaccinated against measles since inception of the programme and areas where maintenance vaccination programmes have been initiated (Figure 10)

4.0 NUMBER OF PERSONNEL ENGAGED IN VACCINATION PROGRAMME

4.1 Vaccinators: Regular teams	_____	6
Maintenance teams	_____	
Other (Specify)	_____	30 (Assessment and 'fire-fighting' teams)
TOTAL	_____	36

Other field staff, including recorders, drivers, etc. \_\_\_\_\_ 3

Supervisory personnel (paramedical) \_\_\_\_\_ 3

4.2 Number of vaccinators directly supervised by one supervisor \_\_\_\_\_ 6

4.3 Average number of vaccinations performed daily by each team:

Regular teams \_\_\_\_\_ 1 367

Maintenance teams \_\_\_\_\_

Other (specify) \_\_\_\_\_

5.0 PROGRAMME EXECUTION

5.1 Supervision

5.1.1 Proportion of time spent in field by supervisory staff and technical advisory staff checking directly on the work of vaccinators and assessors and lower level supervisors:

By country staff reviewing work of - Vaccination team: \_\_\_\_\_ days per mo.

Other levels: \_\_\_\_\_ days per mo.

By advisory staff reviewing work of -

Vaccination team: \_\_\_\_\_ days per mo.

Other levels: \_\_\_\_\_ days per mo.

5.1.2 Measures taken when vaccinator or assessor performance is unsatisfactory

Reassignment

5.2 Assessment

5.2.1 Vaccine "take rates"

Proportion of primary vaccinations in 0-4 year old children which are checked after seven days to determine takes \_\_\_\_\_ 5%

Steps taken when the proportion of successful primary vaccination falls below 95% Not occurred to date. Measures to be taken would be dispatch of vaccine samples for laboratory testing and revaccination of the villages where the vaccine had been used.

5.2.2 Vaccination coverage:

Number of vaccinations performed in each area are compared with the population estimate for the area (e.g. village register, census, etc.)

Yes

No

5.2.3 Assessment of coverage:

An assessment of coverage is regularly performed in a sample of the population

Yes

No

Level of coverage in the 0-4 and 5-14 year age group which is considered acceptable

85%

80%

Other \_\_\_\_\_

Proportion of assessment surveys which fall below the level noted above.

10 %

Steps taken if the coverage is not acceptable (i.e. revaccinate the area etc.) Revaccination after improved planning and publicity

Changes which have been made in the programme as a direct result of assessment House-to-house vaccination if necessary

5.3 Surveillance

5.3.1 Notification of smallpox cases:

Number of sites which could report smallpox cases (e.g. hospitals, health centres, health posts, dispensaries) 17 first echelon; 200 second echelon

Frequency of reporting:

Immediate  Weekly  Other \_\_\_\_\_

Number of reports: Expected in 1968 884 (First echelon)

Received in 1968 870

% received 98.4

Negative reporting is generally practised: Yes  No

Other specialized programmes which report cases

Malaria, yaws, leprosy, trypanosomiasis

Other persons or groups who have been requested to notify cases

Teachers, chiefs, Peace Corps, Govt. agents, missions

Proportion of cases for which age, sex, and vaccination status are recorded

92 %

Best estimate of the percentage of cases which are reported:

	January 1967	February 1969
More than 90%	_____	_____
75-89%	_____	<u>X</u>
50-74%	_____	_____
Less than 50%	<u>X</u>	_____

5.3.2 Case investigation and containment measures:

Number of case investigation/containment ('fire-fighting') teams which have been established 4

These teams are: Centralized  Decentralized

If decentralized, to what extent There is a team in each of the 4 sub-divisions having a history of high smallpox incidence.

Proportion of cases, since October 1968, in which containment action was taken within 48 hours after notification 100 %

Proportion of outbreaks, since October 1968, routinely investigated to determine the origin of infection 100 %

Of the investigations noted above, the percentage of outbreaks where the origin was not ascertained 30 %

6.0 COMMODITIES

6.1 Vaccine use: Col. 1 Number of Doses Recd. Col. 2 Number of Doses in Inventory Col. 3 Number of Doses Used (Col.1-Col.2) Col. 4 Number of Vacc. performed Reasons for Difference between Col.3 and Col.4

Year	Col. 1	Col. 2	Col. 3	Col. 4	Reasons for Difference between Col.3 and Col.4
1967	1 400 000	760 000	640 000	605 170	Normal wastage
1968	1 060 000	33 000	1 027 000	608 307	400 000 doses sent to Dahomey
1969*	333 000	50 000	283 000	271 996	Normal wastage
1967	238 000	40 000	198 000	173 322	12 000 doses sent to Ghana
1968	112 800	38 200	74 600	73 825	Normal wastage
1969*	91 600	60 000	31 600	30 775	Normal wastage

Smallpox vaccine

Measles vaccine

\* January and February only

6.2 Equipment:

<u>Item</u>	<u>Number Supplied</u> *	<u>Number in Operation</u>	<u>Comment</u>
Trucks	4	2	2 off road awaiting spare parts
Ped-o-Jets			
Refrigerators			
Motorbikes			1 off road awaiting spare parts

\* Since inception of the programme.

Has a warehouse with rotating inventory system for spare parts been established? Yes  No

PAYS                       
 COUNTRY                                            
 TOGO

TABLEAU 1. DONNEES DEMOGRAPHIQUES PAR DIVISION GEOGRAPHIQUE  
 (Utiliser les divisions indiquées par les cartes)

TABLE 1. DEMOGRAPHIC DATA BY GEOGRAPHIC SUBDIVISION  
 (Use Subdivisions as shown on Country Maps)

Division géographique	Population approximative en 1969	Superficie (en km <sup>2</sup> )	Densité de population au km <sup>2</sup>
Geographic Subdivisions	Est. 1969 Population	Area (Square kms)	Population density per square km
Lome	158 000	260	607,2
Tsevie	142 000	3 250	43,6
Anecho	250 000	1 436	174,1
Tabligbo	68 000	1 200	56,7
Klouto (Palime)	152 000	3 280	46,3
Nuatja	72 000	3 100	23,2
Atakpame/Akposso	265 000	14 900	17,8
Sokode/Bafilo	140 000	11 040	12,7
Bassari	90 000	6 070	14,8
Lama-Kara	105 000	1 075	97,7
Pagouda	46 000	480	95,8
Niamtougou	53 000	1 400	37,8
Kande	42 000	2 000	21,0
Mango	59 000	5 560	10,6
Dapango	173 000	4 500	38,4
Total	1 815 000	59 551	30,3

TABEAU 2. CAS DE VARIOLE PAR MOIS ET PAR DIVISION GEOGRAPHIQUE (JUSQU'A FEVRIER 1969)  
TABLE 2. SMALLPOX CASES BY MONTH AND GEOGRAPHIC SUBDIVISION (TO FEBRUARY 1969)

Division géographique	Nombre de cas pas mois/Number of cases by month														1969	
	1968													Total	J	F
Geographic Subdivisions	J	F	M	A	M	J	J	A	S	O	N	D				
Semaines/Weeks	1-5	6-9	10-13	14-17	18-22	23-26	27-31	32-35	36-39	40-44	45-48	49-52		1-5	6-9	
Lome	4	1		1	2	6	9	14	48	10	18	34	147	2	3	
Tsevie	29	14	5	7	2	2	2	2	16	16	7	2	104	1		
Anecho	1	27	1	5	10	7	28		121	47	8	34	289			
Tabligbo				6		3	5			7	10	14	45	8	3	
Klouto (Palime)	12	13	8	4	6	1		4	1				49			
Nuatja	9	28		1									38	2		
Atakpame/Akposso	10	16	1	2									30			
Sokode/Bafilo				1	1								2			
Bassari													0			
Lama-Kara			10			2							12			
Pagouda			29	16									45			
Miamtougou	1	2		2	3	10	5						23			
Kande													0			
Mango													0			
Dapango													0			
Total	66	101	54	45	24	31	50	20	186	80	43	84	784	13	6	

PAYS                      TOGO  
COUNTRY                     

TABIEAU 3. CAS DE VARIOLE PAR AGE ET PAR SEXE  
TABLE 3. SMALLPOX CASES BY AGE AND SEX

Mois	Age								Age/Sexe inconnu	Total
	0-4		5-14		15-44		45+		Unknown Age/Sex	
Month	M	F	M	F	M	F	M	F		
J 1968	12	8	4	1	8	14	3	3	13	66
F	20	8	13	9	17	9	2	5	18	101
M	7	9	7	9	8	9	1	1	3	54
A	5	6	9	6	6	7	1	-	5	45
M	3	1	3	-	4	7	1	1	4	24
J	4	3	5	3	4	11	-	1	-	31
J	6	10	6	12	5	9	1	-	1	50
A	1	-	1	1	9	8	-	-	-	20
S	32	16	20	27	39	31	12	5	4	186
O	3	13	7	20	12	16	1	1	7	80
N	6	1	4	11	6	8	1	-	6	43
D	11	11	10	16	9	19	4	2	2	84
J 1969	2	1	-	3	7	-	-	-	-	13
F	-	-	-	-	2	4	-	-	-	6



TABLEAU 4. VACCINATIONS ANTIVARIOLIQUES EFFECTUEES, PAR DIVISION GEOGRAPHIQUE  
(Divisions indiquées par les cartes)

TABLE 4. SMALLPOX VACCINATIONS PERFORMED BY GEOGRAPHIC SUBDIVISIONS  
(those shown on country maps)

Division géographique	1967	1er trim. 1968	2ème trim. 1968	3ème trim. 1968	4ème trim. 1968	J-F 1969	Total général *
Geographic Subdivisions		First Quarter	Second Quarter	Third Quarter	Fourth Quarter		Grand total *
Lome	160 122			41 961	41 874	6 280	250 237
Tsevie		2 383			83 679	46 211	132 273
Anecho		67 754	47 191	6 967	102 529	43 440	267 881
Tabligbo					66 909		66 909
Klouto (Palime)			116 827				116 827
Nuatja	33 511	25 040				10 818	69 369
Atakpame/Akposso	188 063	5 213				10 875	204 151
Sokode/Bafilo							
Bassari							
Lama Kara						98 404	98 404
Pagouda						37 150	37 150
Niamtougou							
Kande	24 388					18 818	43 206
Mango	41 303						41 303
Dapango	157 783						157 783
Total	605 170	100 390	164 018	48 928	294 991	271 996	1 485 493

\* Englobant le total depuis la mise en oeuvre du programme.

\* Includes the total since the inception of the programme.

TABLEAU 5. OBJECTIFS DE LA VACCINATION PAR DIVISION GEOGRAPHIQUE,  
DE JUILLET 1969 A JUIN 1970

TABLE 5. VACCINATION TARGETS BY GEOGRAPHIC SUBDIVISIONS  
JULY 1969-JUNE 1970

Division géographique	Nombre de vaccinations prévues/Number of vaccinations planned			
	1969		1970	
Geographic Subdivisions	Juillet-septembre	Octobre-décembre	Janvier-mars	Avril-juin
	July-September	October-December	January-March	April-June
Lome				35 000
Tsevie				28 000
Anecho				
Tabligbo				
Klouto (Palime)			30 000	
Nuatja			14 000	
Atakpame/Akposso		52 000		
Sokode/Bafilo				
Bassari				
Lama Kara				
Pagouda				
Niamtougou				
Kande				
Mango		12 000		
Dapango	34 000			
Total	34 000	64 000	44 000	63 000

TABLEAU 6. CAS DE ROUGEOLE DECLARES DE JANVIER 1968 JUSQU'A FEVRIER 1969 COMPRIS  
TABLE 6. REPORTED MEASLES CASES JANUARY 1968 (THROUGH FEBRUARY 1969)

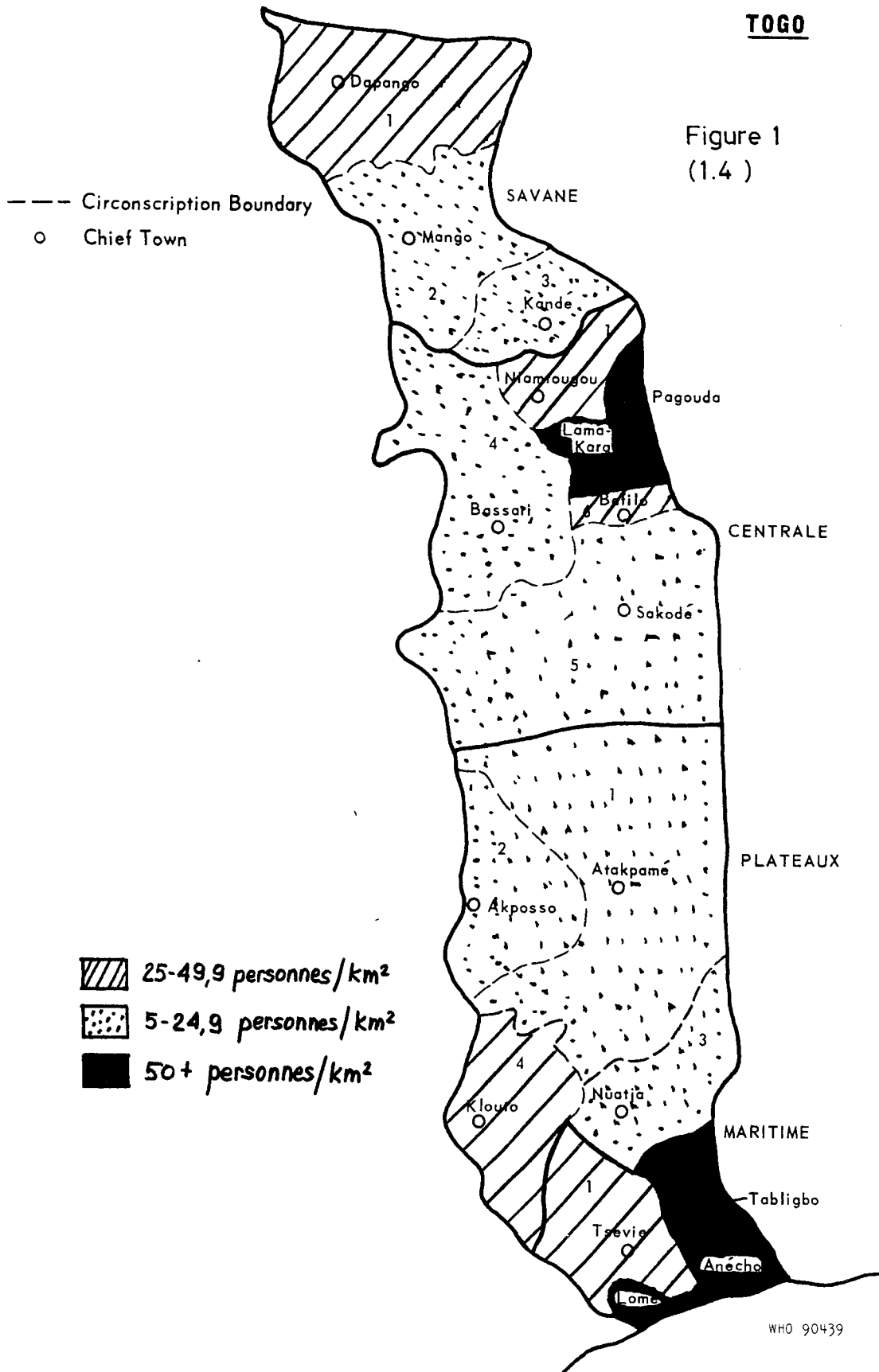
Division géographique	Nombre de cas par mois/Number of cases by month														
	1968													1969	
	J	F	M	A	M	J	J	A	S	O	N	D	Total	J	F
Semaines/Weeks	1-5	6-9	10-13	14-17	18-22	23-26	27-31	32-35	36-39	40-44	45-48	49-52		1-5	6-9
Lome	81	80	90	72	188	143	79	75	39	88	170	85	190	Pas de données disponibles	
Tsevie	42	53	42	46	53	32	48	73	42	81	151	133	796	disponibles	
Anecho	185	280	248	189	88	93	56	95	59	51	83	106	1 533		
Tabligbo	57	20	33	46	124	236	112	140	140	39	101	174	1 222	Data not available	
Klouto (Palime)	109	64	86	99	104	89	106	70	81	106	94	83	1 091		
Nuatja	8	19	18	9	13	11	8	48	8	17	24	29	212		
Atakpame/Akposso	14	13	38	62	88	58	55	37	31	21	36	32	485		
Sokode/Bafilo	252	385	285	414	387	250	339	171	115	105	110	108	2 921		
Bassari	27	24	52	57	72	113	110	41	67	71	65	65	764		
Lama Kara	77	60	127	101	74	31	74	29	83	110	170	83	1 019		
Pagouda	105	67	106	61	53	58	58	31	77	123	95	62	896		
Niamtougou	15	24	27	15	12	34	30	11	17	21	79	104	389		
Kande	2	1	3	3	14	14	0	2	8	1	0	4	52		
Mango	39	67	98	73	58	11	2	3	3	28	144	213	739		
Dapango	281	158	259	327	187	180	177	184	258	374	547	378	3 310		
Total	1 294	1 315	1 512	1 574	1 515	1 353	1 254	1 010	1 028	1 236	1 869	1 659	16 619		

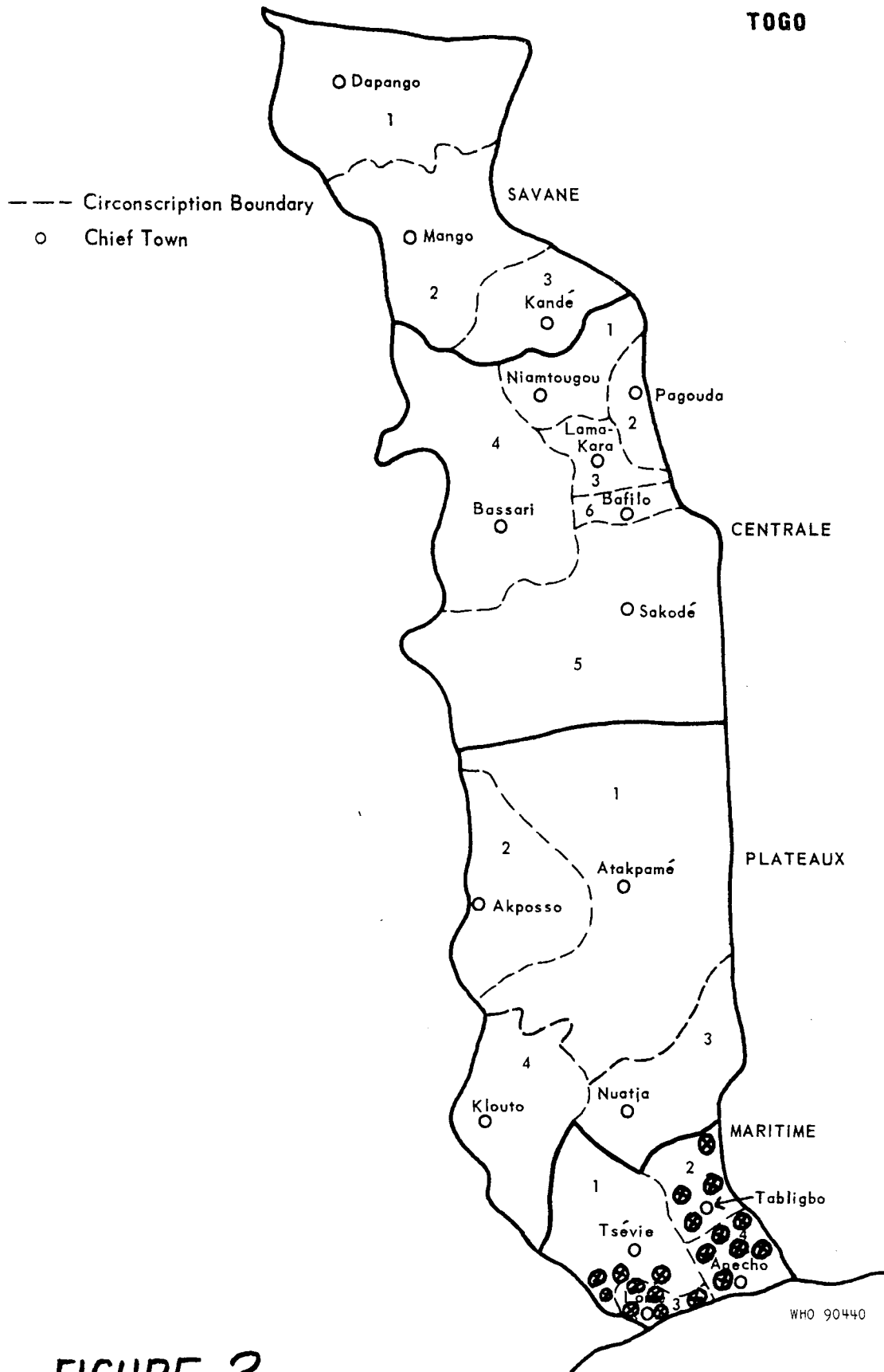
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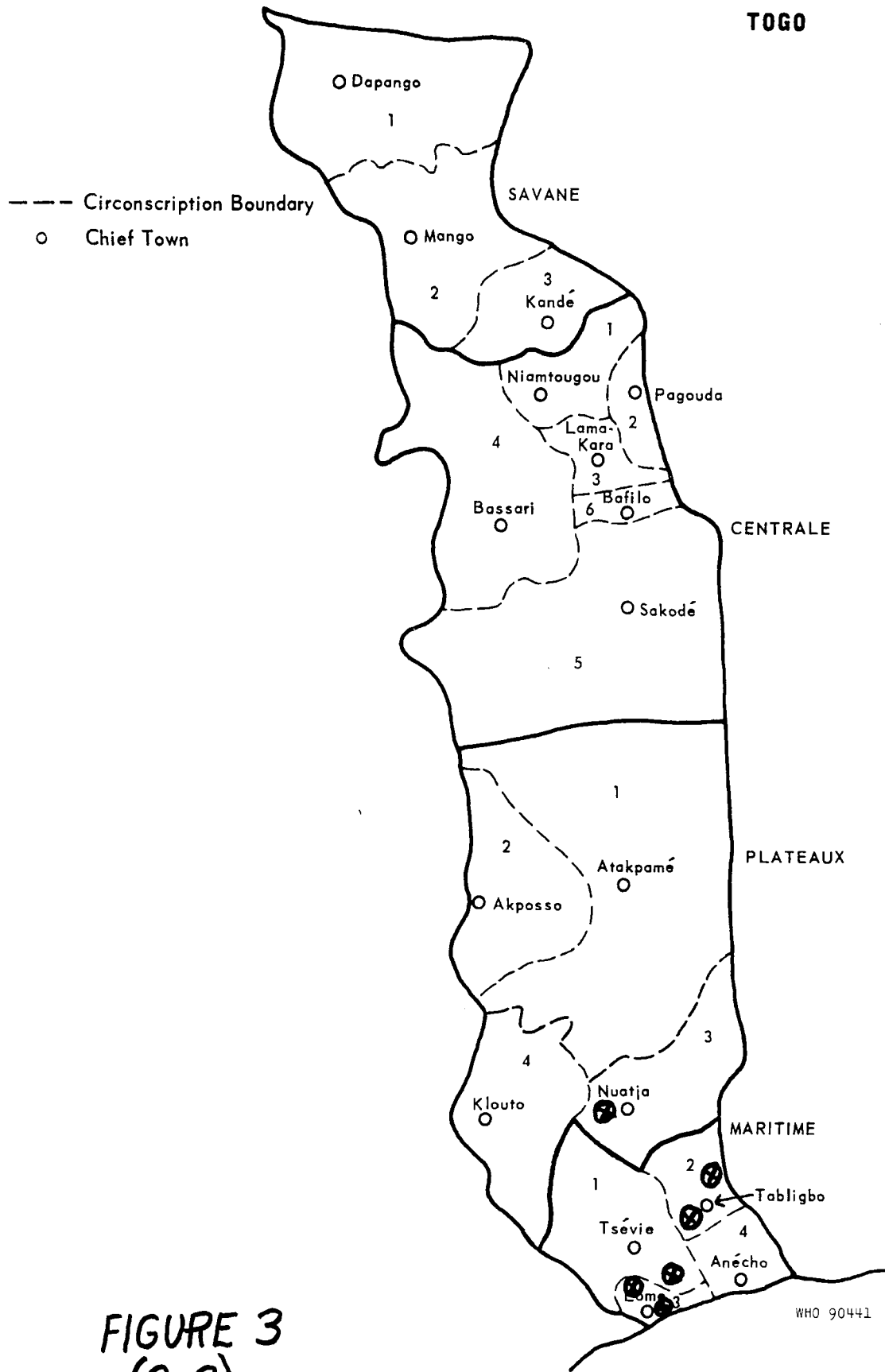
**TOGO**

Figure 1  
(1.4)





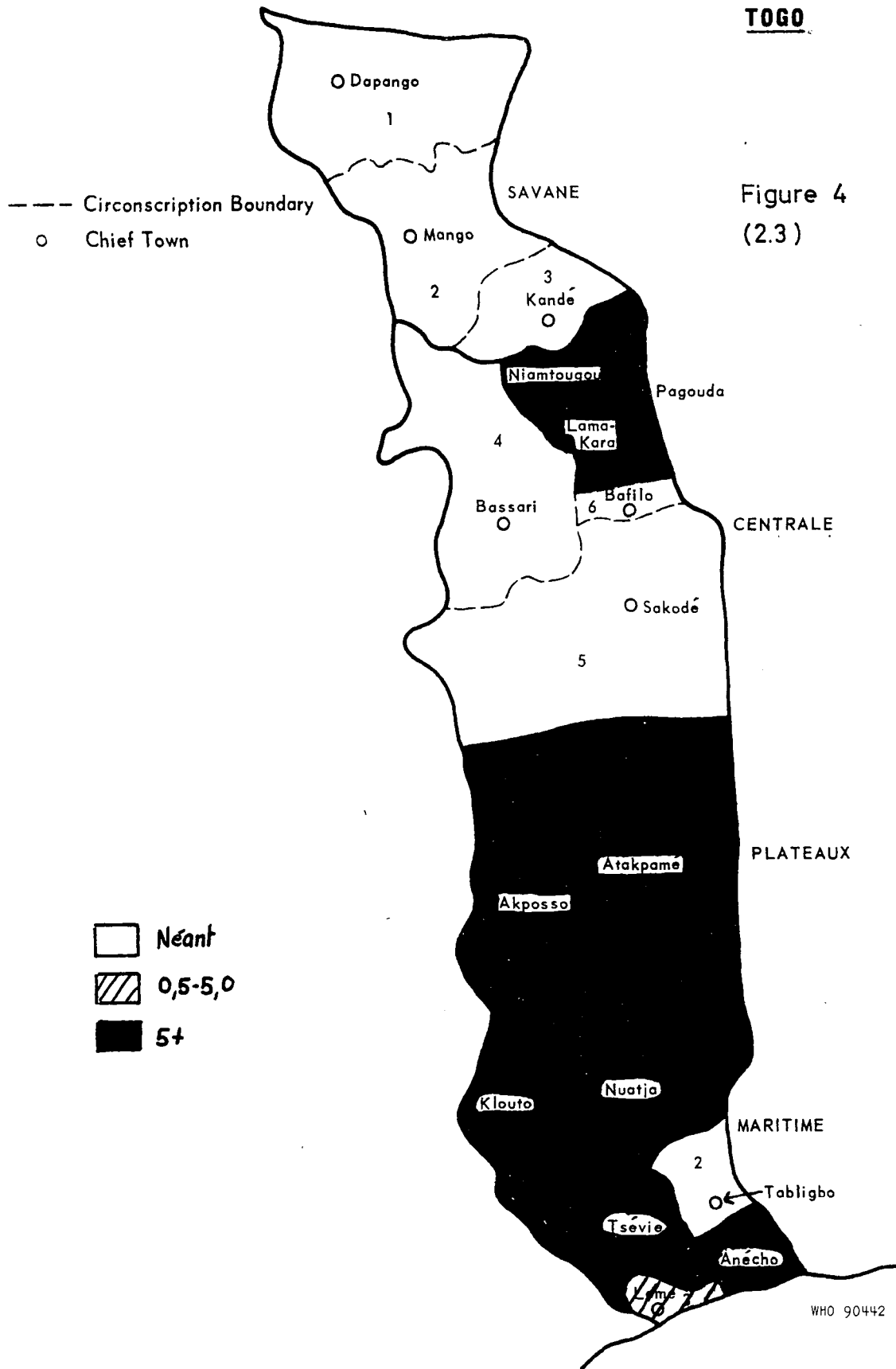
**FIGURE 2**  
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**FIGURE 3**  
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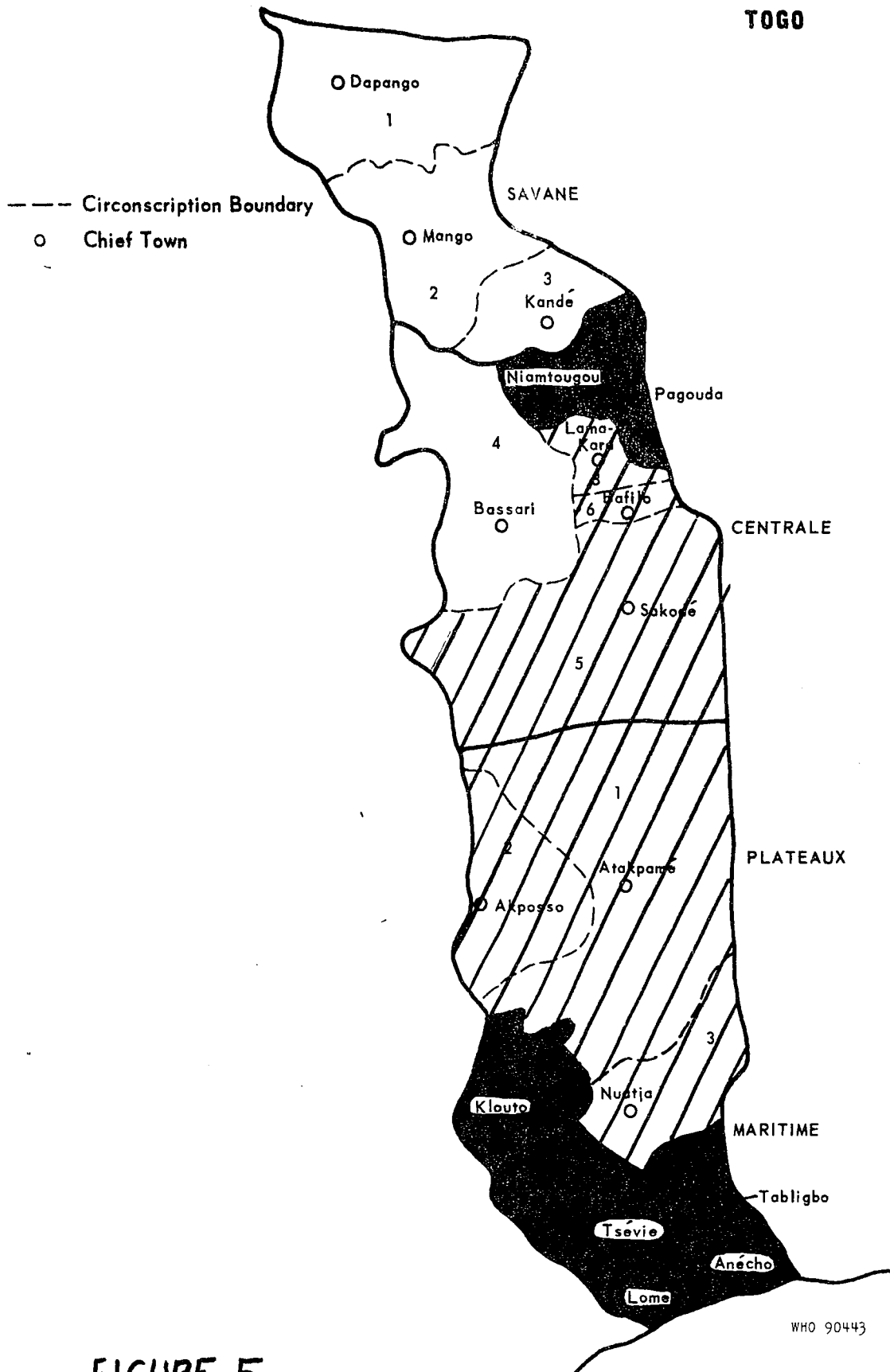
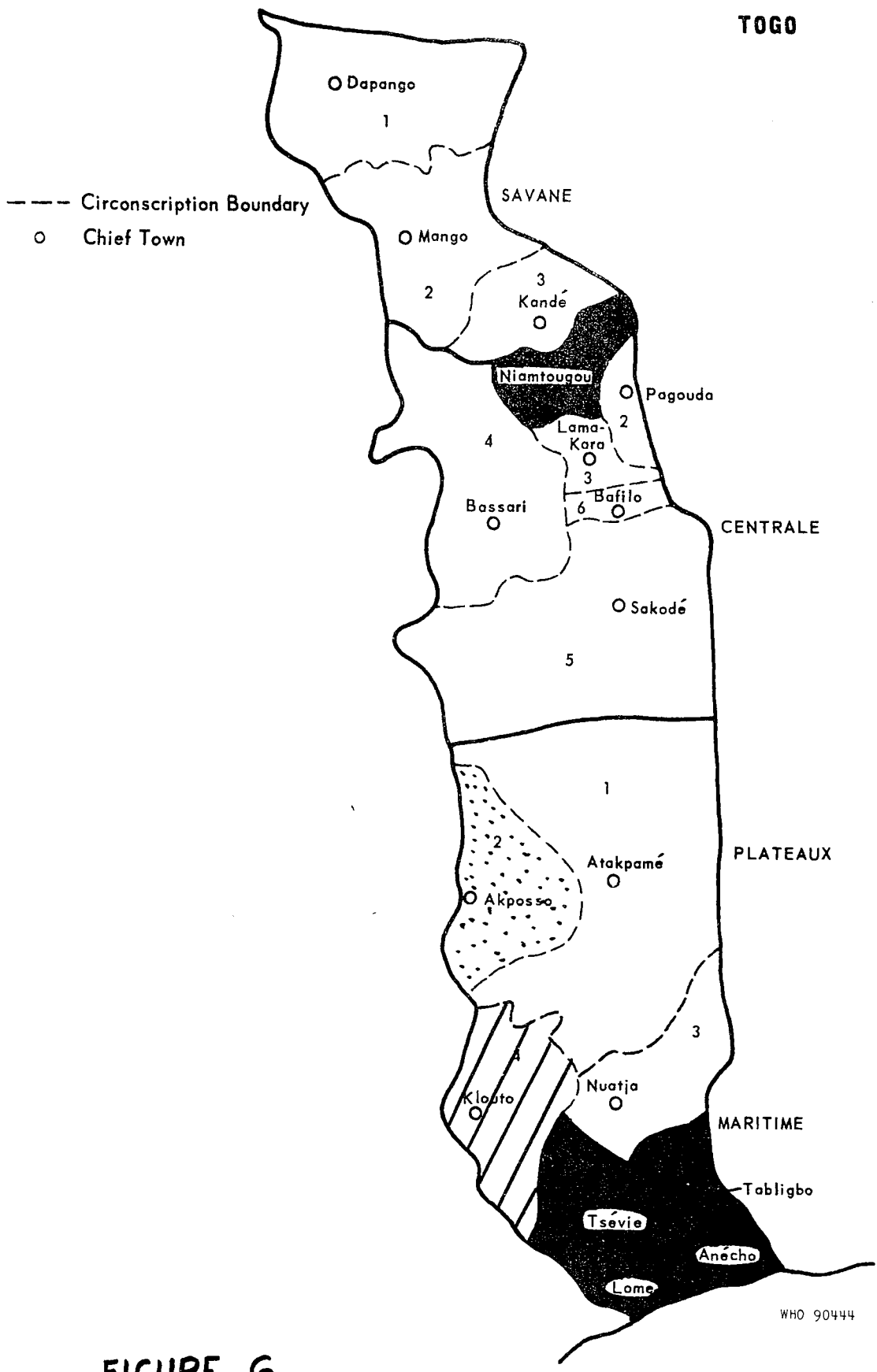
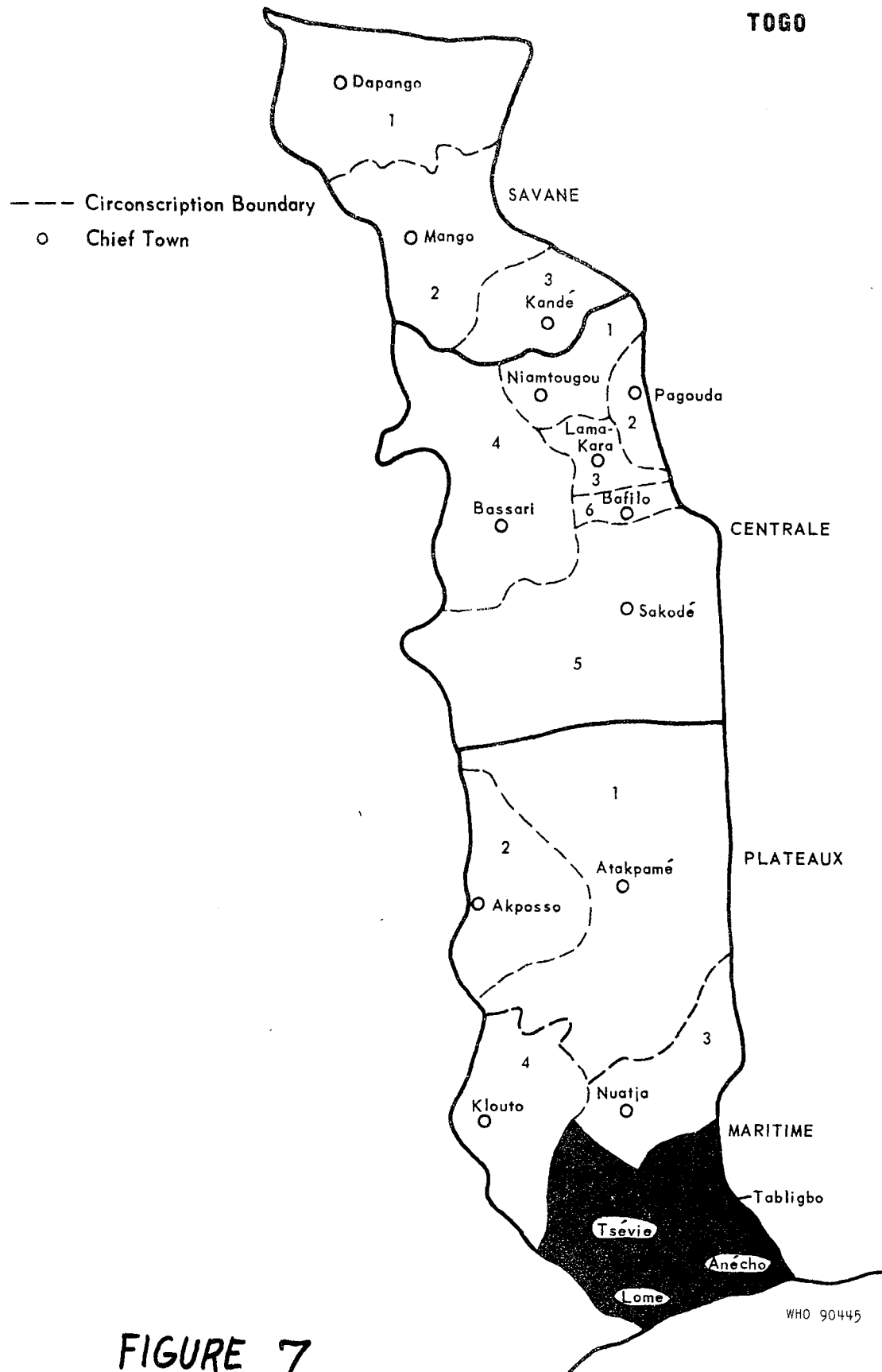


FIGURE 5  
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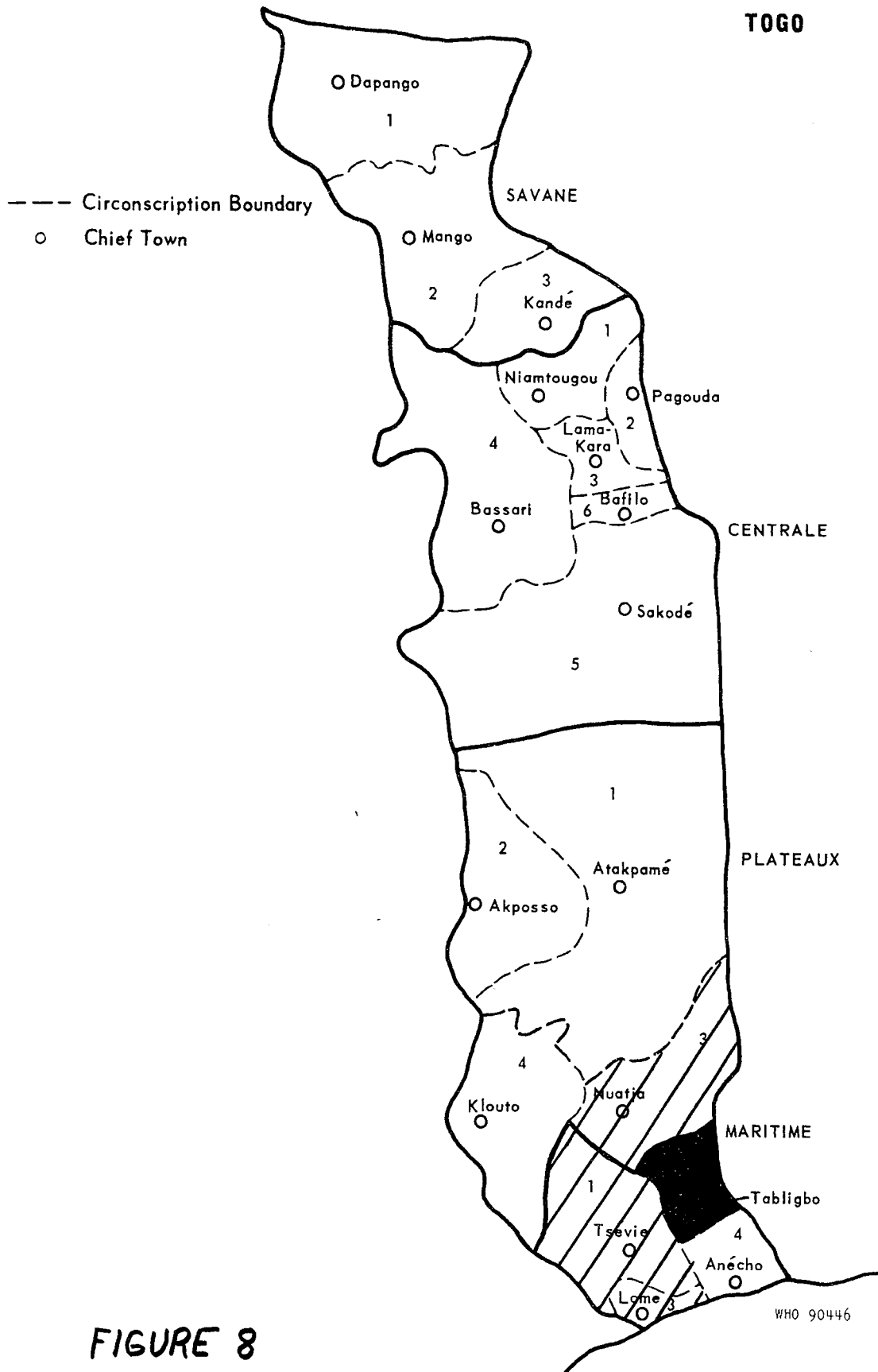


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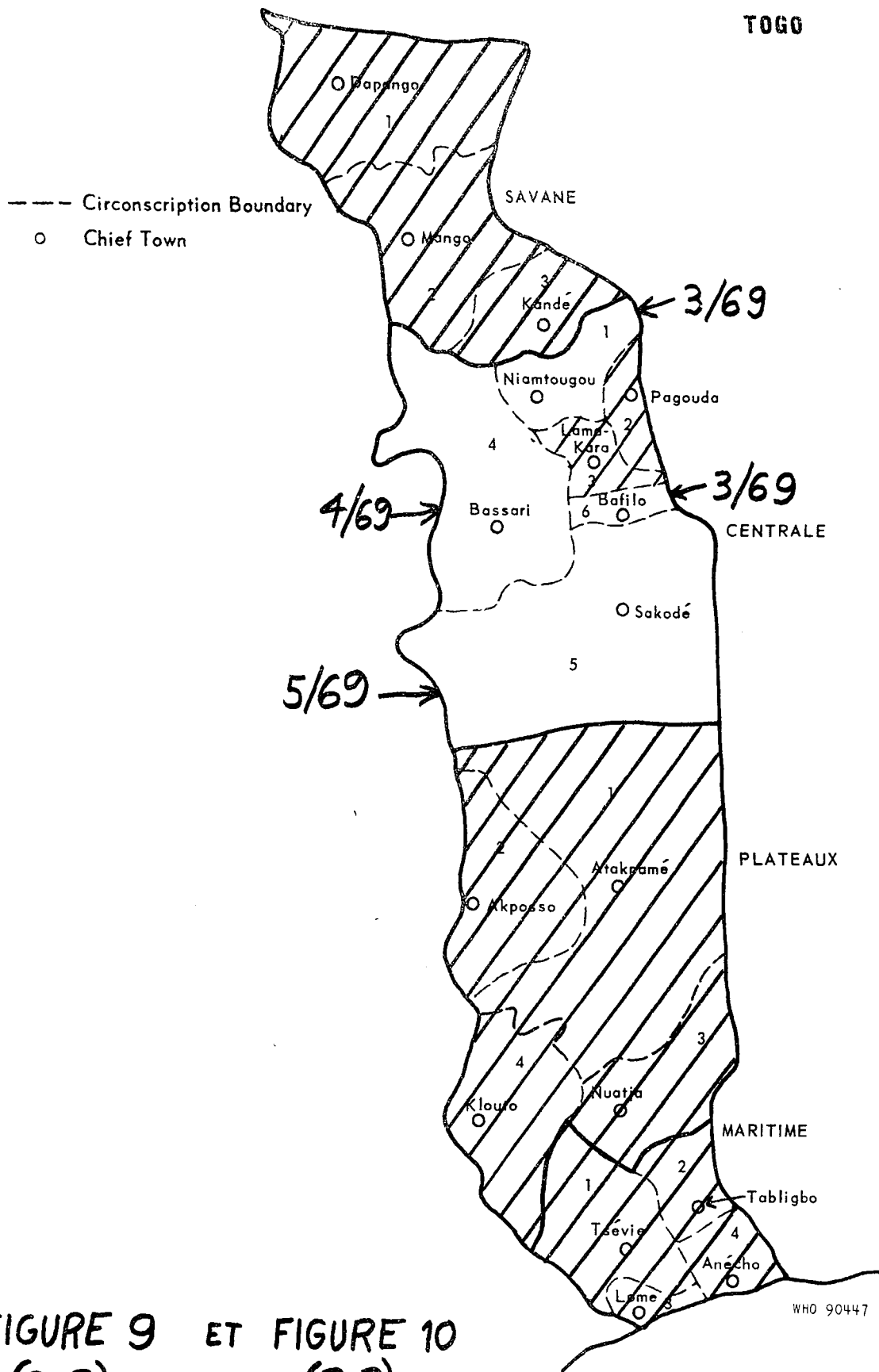
**FIGURE 6**  
**(2.3)**



**FIGURE 7**  
**(2.3)**



**FIGURE 8**  
**(2.3)**



**FIGURE 9 ET FIGURE 10**  
 (2.6) (3.3)