



INTER-REGIONAL SEMINAR ON SMALLPOX ERADICATION

Lagos, Nigeria, 13-20 May 1969

COUNTRY REPORT



1.0 DEMOGRAPHIC DATA

1.1 Estimated population (July 1969) 1966 with an estimate for 1970 based on "La situation démographique en Haute Volta - résultats partiels" Insee. Cooperation Paris 1960-61.

Age	1966	1970
0-4	849 155	907 164
5-14	1 146 596	1 224 928
15-44	2 062 914	2 203 848
45+	738 811	789 284
TOTAL	4 797 476	5 125 224

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 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

SE/69.25

(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	<u>8</u>	
	Maintenance teams	_____	
	Other (Specify)	<u>21</u>	Prospection teams
	TOTAL	<u>29</u>	
	Other field staff, including recorders, drivers, etc.		<u>16</u>
	Supervisory personnel (paramedical)		<u>2</u>

4.2 Number of vaccinators directly supervised by one supervisor 8

4.3 Average number of vaccinations performed daily by each team:

Regular teams 1 500

Maintenance teams _____

Other (specify) 600

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: 20 days per mo.

Other levels: - days per mo.

By advisory staff reviewing work of -

Vaccination team: 4 days per mo.

Other levels: 4 days per mo.

5.1.2 Measures taken when vaccinator or assessor performance is unsatisfactory

Suspension

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 1%

Steps taken when the proportion of successful primary vaccination falls below 95% Revaccination of area by prospection team and/or re-cycling of national teams in area as soon as possible.

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.

0 %

Steps taken if the coverage is not acceptable (i.e. revaccinate the area etc.) Revaccination by prospection team and recycling of national team as soon as possible.

Changes which have been made in the programme as a direct result of assessment In planning stage at this point.

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) 604

Frequency of reporting:

Immediate

Weekly

Cases or foyers are notified immediately. Reports are submitted on a weekly basis.

Number of reports: Expected in 1968 _____

Received in 1968 (1)

% received _____

Negative reporting is generally practised: Yes No

Other specialized programmes which report cases

Measles and Cerebral spinal meningitis.

Other persons or groups who have been requested to notify cases

Village Heads.

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

0 %

Best estimate of the percentage of cases which are reported:

	January 1967	February 1969
More than 90%	_____	No smallpox cases
75-89%	_____	_____
50-74%	<u>x</u>	_____
Less than 50%	_____	_____

5.3.2 Case investigation and containment measures:

Number of case investigation/containment ('fire-fighting') teams which have been established 0 - Investigations conducted by NCDC Personnel & Medicine - Chefs of the Santé Rurale

These teams are: Centralized Decentralized

If decentralized, to what extent _____

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 0 %

(1) The Santé Rurale received reports from 274 fixed centres during 1968. In January 1969 a new system was developed by the Santé Rurale. This system calls for reports from 604 centres both fixed and mobile. This figure includes every facility operated by the Santé Rurale.

6.0 COMMODITIES

6.1 Vaccine use:

Year	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
1967	500 000 2 543 500	Jetpox MTP		0 2 039 867	Sent to Lagos
1968	750 000 1 943 500	Jetpox MTP		504 311 1 703 751	
1969*	500 000 600 000	Jet- pox MTP	230 000 632 000	Jetpox MTP 260 832 136 188	
1967	410 000			339 161	
1968	370 000			392 022	
1969*	100 000	118 150		38 069	

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	7	7	
Ped-o-Jets	24	24	
Refrigerators	6	6	
Motorbikes	-	-	

* Since inception of the programme.

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

TABIEAU 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 ²)	Densité de population au km ²
Geographic Subdivisions	Est. 1969 Population	Area (Square kms)	Population density per square km
Sector I Ouagadougou	650 600	15 262	42,62
Sector II Fadan'Gourma	562 000	59 031	9,52
Sector III Gaoua	380 200	17 448	21,79
Sector IV Ouahigouya	516 850	23 640	21,86
Sector V Koudougou	615 650	26 557	23,18
Sector VI Dedougou	485 350	29 588	16,40
Sector VII Bobodioulasso	541 400	43 172	12,54
Sector VIII Kaya	604 050	21 578	27,99
Sector IX Dori	164 350	23 519	6,99
Sector X Yako	307 050	5 288	58,07
Sector XI Manga	257 450	8 917	28,87
Total	5 084 950	274 000	18,56

TABLEAU 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
	J	F	M	A	M	J	J	A	S	O	N	D	Total			
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
Sector I															No	
Sector II									20					20	smallpox	
Sector III															cases	
Sector IV						1								1		
Sector V																
Sector VI					13							41		54		
Sector VII																
Sector VIII																
Sector IX	16													16		
Sector X																
Sector XI								1						1		
Total	16				13	1		1	20			41		92		

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 *
Sector I **1	266 616	64 942	28 117	-	68 383	42 994	471 052
***2	201	12 742	25 467	-	-	-	38 470
Sector II 1	189 974	16 484	22 704	18 410	28 360	14 164	290 096
2	13 081	-	-	-	-	-	13 081
Sector III 1	126 448	161 195	53 580	1 123	51 037	23 996	417 379
2	-	-	-	-	-	-	-
Sector IV 1	189 138	37 180	85 343	15 768	*** (240 042)	821	568 292
2	-	-	-	-	-	-	-
Sector V 1	194 982	42 654	13 578	7 048	48 339	1 810	308 411
2	59 140	45	14 540	15 565	-	-	89 290
Sector VI 1	173 963	76 834	67 806	30 120	72 413	797 (260 832)	682 765
2	-	-	-	-	-	-	-
Sector VII 1	138 483	57 430	34 252	50 150	59 415	71	339 801
2	35 120	-	6 924	48 211	6 517	34	96 806
Sector VIII 1	219 723	28 897	26 001	10 321	67 203	23 125	375 270
2	43 061	-	-	-	-	-	43 061
Sector IX 1	164 452	2 767	-	-	(53 146)	-	220 365
2	383	-	-	-	-	-	383
Sector X 1	122 172	27 509	37 188	11 118	22 058 (195 115)	4 141	419 301
2	14 516	576	3 015	610	1 875	2 156	22 746
Sector XI 1	41 222	20 206	6 028	4 140	17 311	2 781	91 688
2	47 192	7 360	10 587	7 113	28 507	-	100 759
Total	2 039 867	556 821	435 130	219 697	959 721	377 720	4 588 956

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

* Includes the total since the inception of the programme.

**1 Smallpox vaccinations only - Vaccinations antivarioliques seulement

***2 Smallpox & yellow fever vaccine mixed - Vaccination associée contre la variole et la fièvre jaune

*** Figures in parenthesis accomplished by jet injection, National Teams - Les chiffres entre () représentent les vaccinations pratiquées au moyen de l'injecteur à pression par les équipes nationales

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
Sector I				622 230
Sector II		412 438		
Sector III		233 351	194 513	
Sector IV				
Sector V			451 693	
Sector VI				
Sector VII			95 159	
Sector VIII				123 460
Sector IX				
Sector X				
Sector XI				
Total	0	645 789	741 365	745 690

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														1969		
	1968														Total	J	F
	J	F	M	A	M	J	J	A	S	O	N	D	Total	J			
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		
Sector I	36	106	297	266	372	96	75	96	44	35	34	28	1 485	70	347		
Sector II	-	12	22	24	72	20	14	11	-	23	80	58	336	96	706		
Sector III	-	1	49	53	198	30	23	44	1	-	-	-	399	8	15		
Sector IV	4	24	14	68	72	18	6	1	-	-	-	-	207	-	46		
Sector V	-	27	22	2	20	14	12	-	-	2	48	25	172	219	556		
Sector VI	-	30	2	3	18	-	-	1	-	-	-	13	67	41	59		
Sector VII	-	14	33	6	23	7	20	4	2	8	35	2	154	31	129		
Sector VIII	-	18	113	97	168	79	17	6	-	-	-	2	500	83	363		
Sector IX	-	67	-	351	198	42	4	-	-	-	-	-	662	-	392		
Sector X	-	1	-	39	20	16	7	2	-	-	-	-	85	-	2		
Sector XI	25	181	-	183	58	5	2	-	-	1	1	-	456	2	9		
Total	65	481	552	1 092	1 219	327	180	165	47	69	198	128	4 523	550	2 624		

TABLEAU 7. VACCINATIONS ANTIROUGEOLEUSES EFFECTUEES, PAR DIVISION GEOGRAPHIQUE
(Divisions indiquées par les cartes)

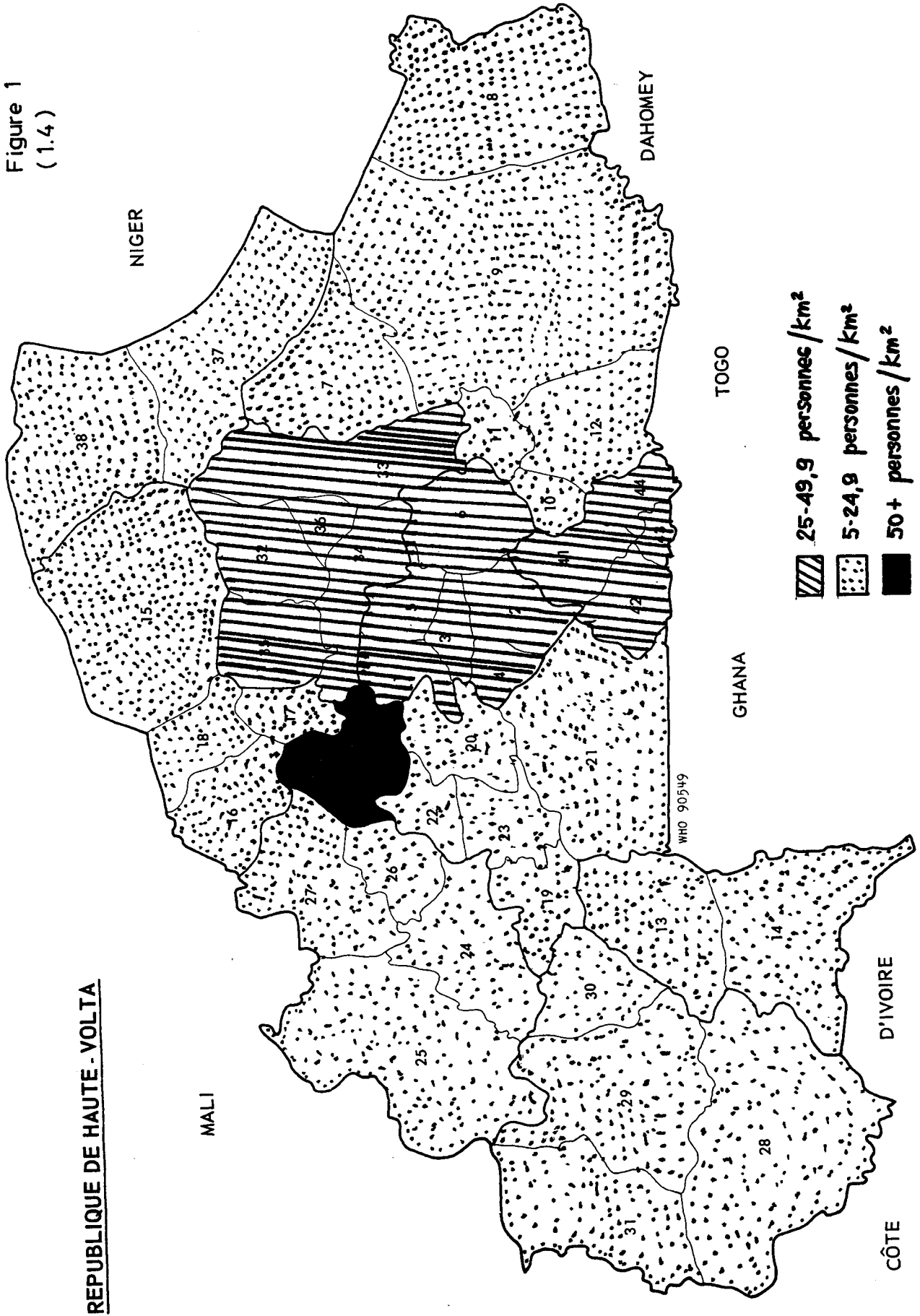
TABLE 7. MEASLES VACCINATIONS PERFORMED BY GEOGRAPHIC SUBDIVISIONS
(those shown on country maps)

Division géographique	1er trim. 1968	2ème trim. 1968	3ème trim. 1968	4ème trim. 1968	Janvier-février 1969	Total général*
Geographic Subdivisions	First Quarter	Second Quarter	Third Quarter	Fourth Quarter		Grand total*
Sector I	40 084			16 658		78 881
Sector II		75 818				75 818
Sector III					48	62 067
Sector IV				53 312		147 052
Sector V		61 523				61 523
Sector VI	45		25		38 467	117 405
Sector VII	3 232					91 497
Sector VIII		55 860				55 860
Sector IX				13 517		13 517
Sector X				40 084		40 084
Sector XI	25 080					24 080
						/
Total	75 241	193 201	25	123 571	38 515	768 900

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

* Includes the total since the inception of the programme.

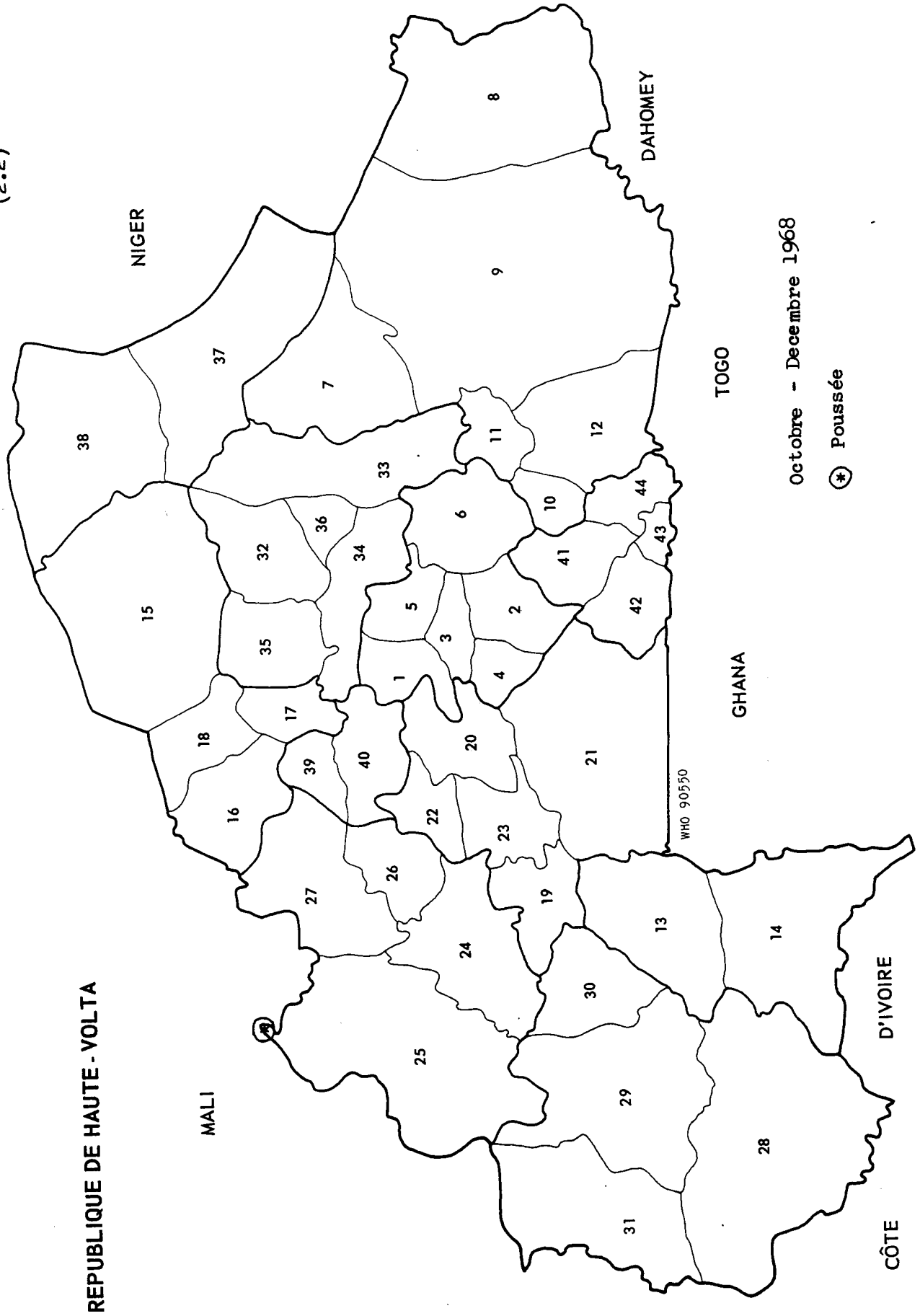
Figure 1
(1.4)



LEGEND

<u>SECTEUR</u>	<u>CERCLE</u>
I	1. Bousse 2. Kombissiri 3. Ouagadougou 4. Sapone 5. Ziniare 6. Zorgo
II	7. Bogande 8. Diapaga 9. Fada N'Gourma 10. Garango 11. Koupela 12. Tenkodogo
III	13. Diebougou 14. Gaoua
IV	15. Djibo 16. Ouahigouya 17. Seguenega 18. Titao
V	19. Boromo 20. Koudougou 21. Leo 22. Reo 23. Tenado
VI	24. Dedougou 25. Nouna 26. Toma 27. Tougan
VII	28. Banfora 29. Bobo Dioulasso 30. Hounde 31. Orodar
VIII	32. Barsologho 33. Boulea 34. Kaya 35. Kongoussi 36. Pissila
IX	37. Dori 38. Ouadalan
X	39. Gourcy 40. Yako
XI	41. Manga 42. Po 43. Tiebele 44. Zabre

Figure 2
(2.2)



Octobre - Decembre 1968

(*) Poussée

UPPER VOLTA

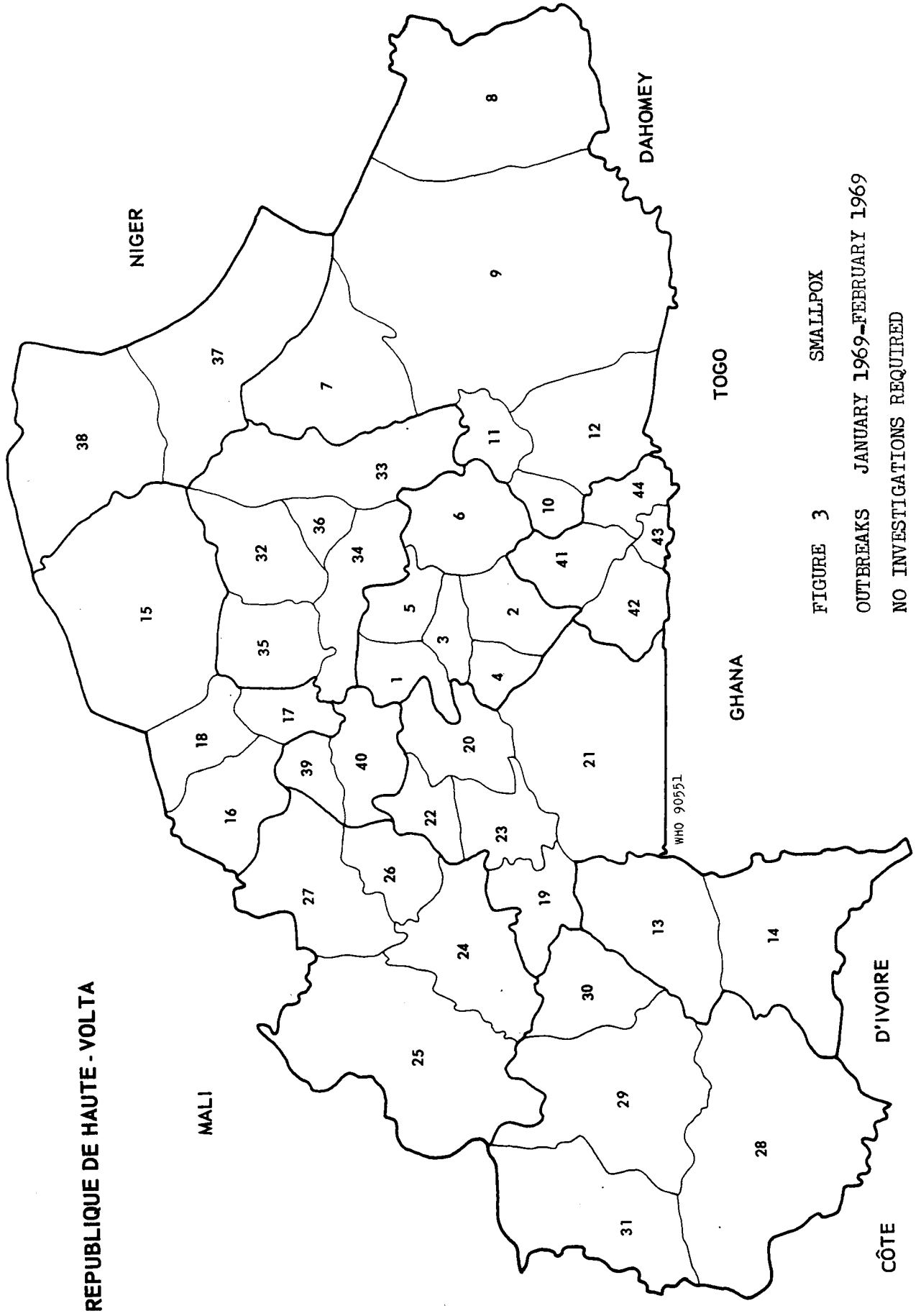


FIGURE 3 SMALLPOX

OUTBREAKS JANUARY 1969-FEBRUARY 1969

NO INVESTIGATIONS REQUIRED

Figure 4
(2.3)

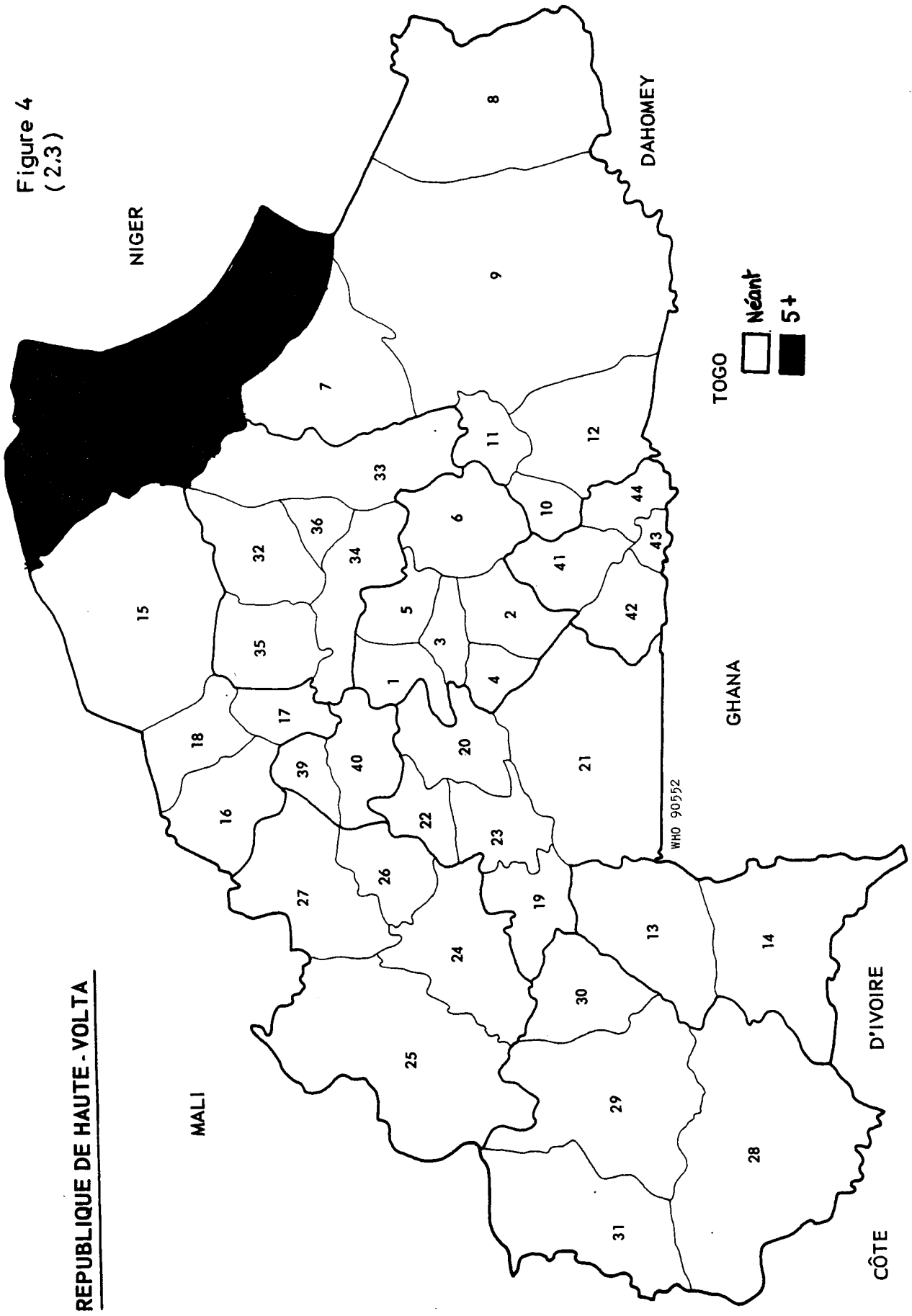


Figure 5
(2.3)

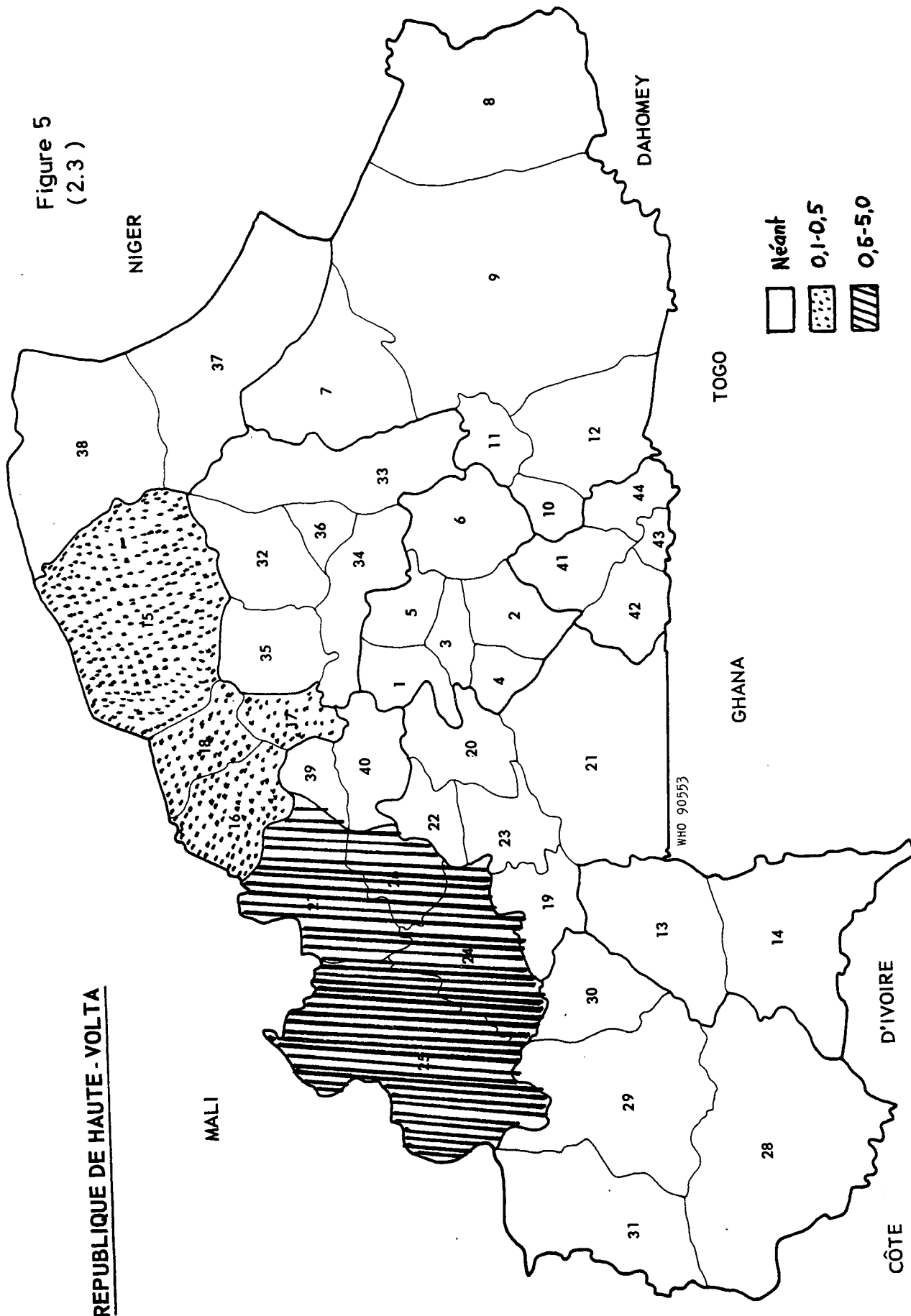
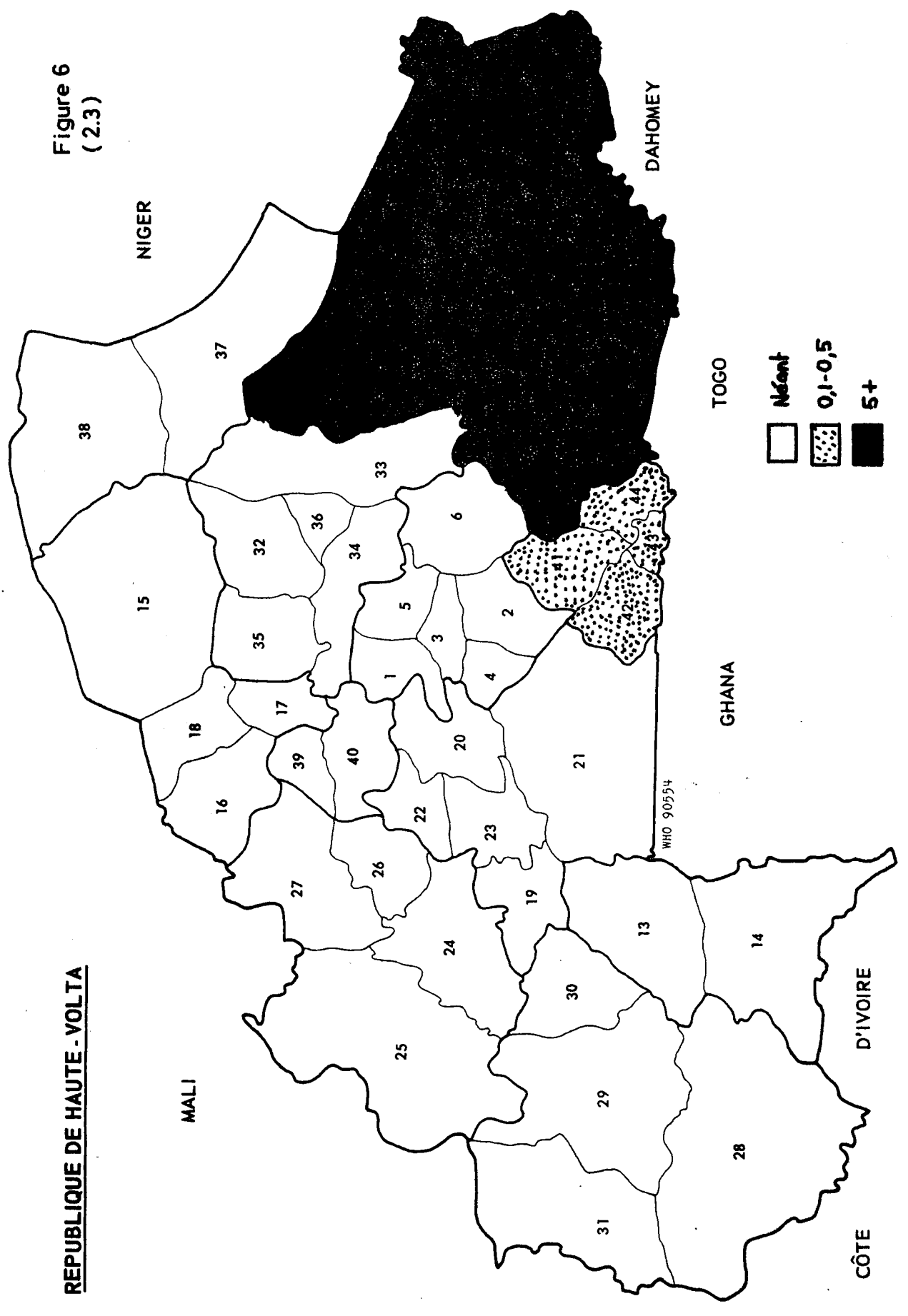


Figure 6
(2.3)



REPUBLIQUE DE HAUTE - VOLTA

Figure 7
(2.3)

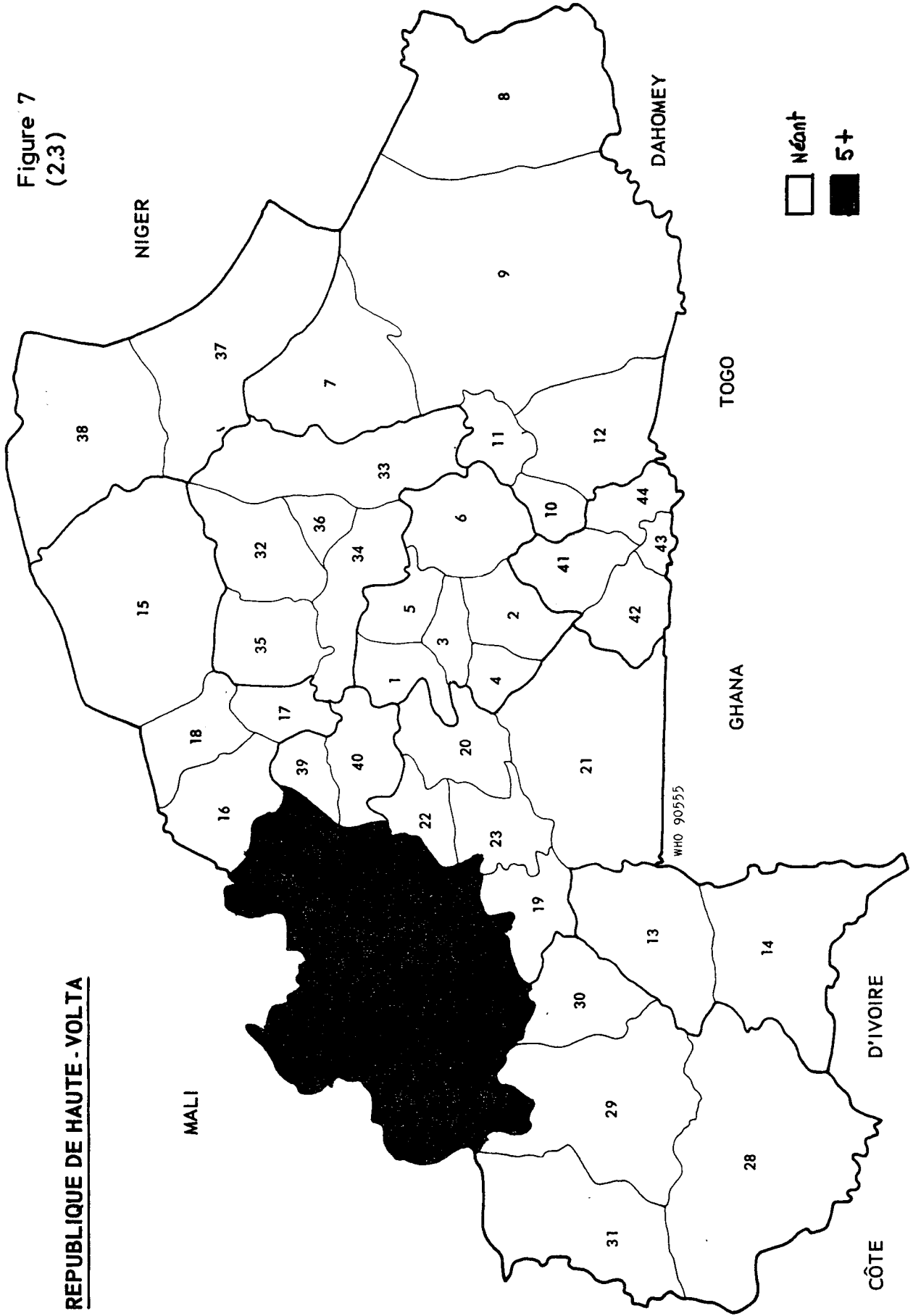
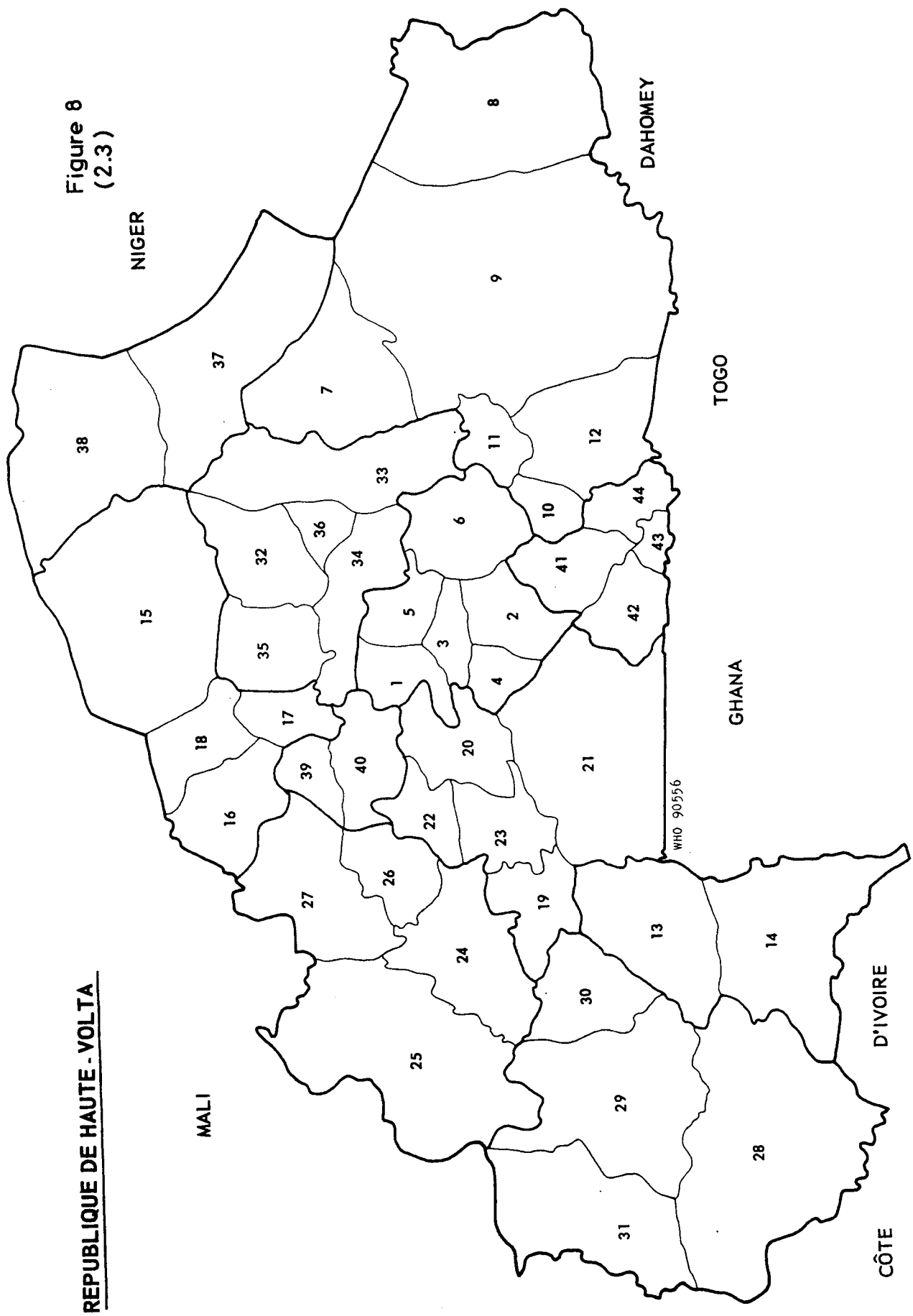


Figure 8
(2.3)



REPUBLIQUE DE HAUTE - VOLTA

NIGER

MALI

TOGO

GHANA

D'IVOIRE

CÔTE

DAHOMEY

WHO 90556

Figure 9
(2.6)

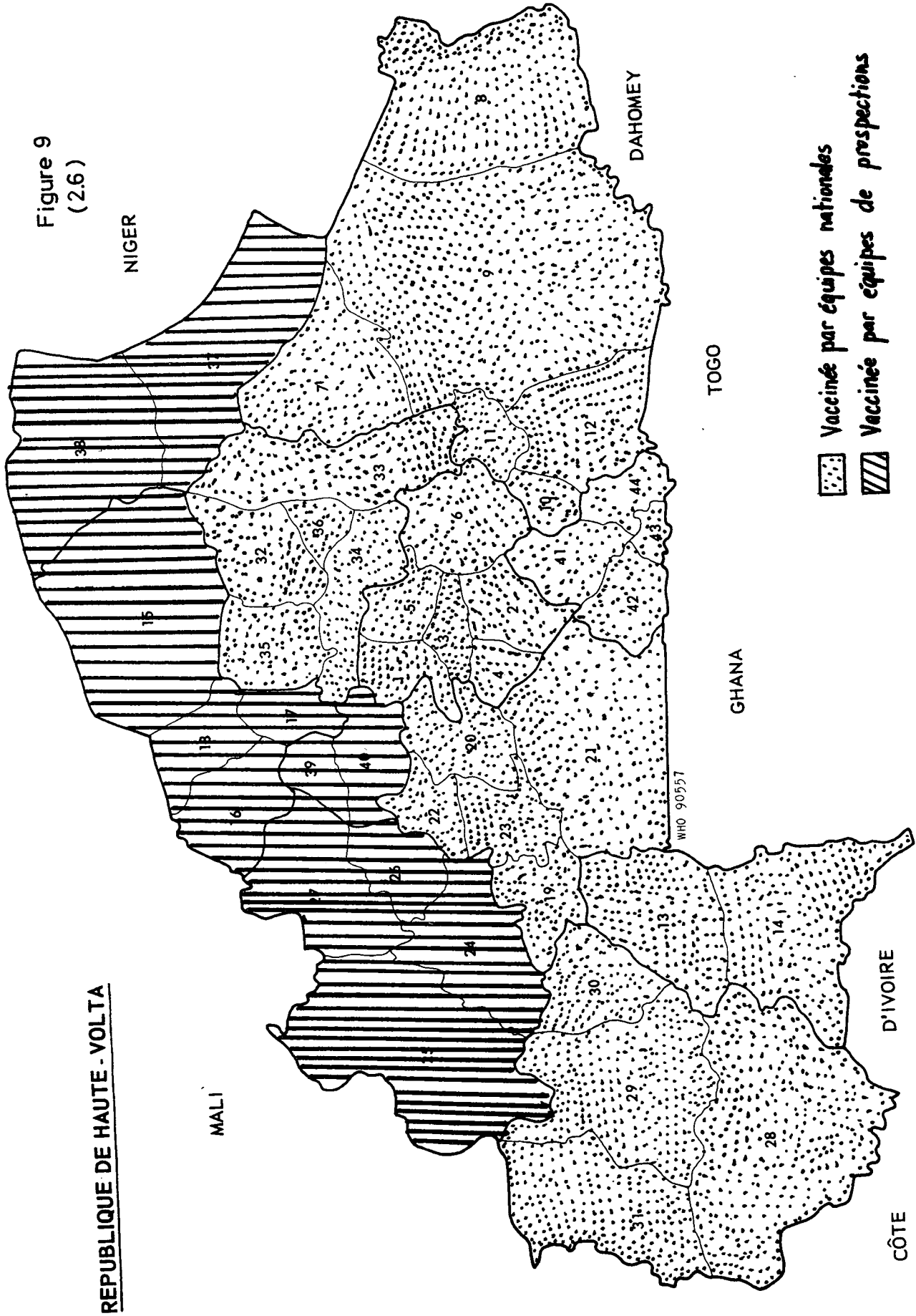


Figure 10
(33)

