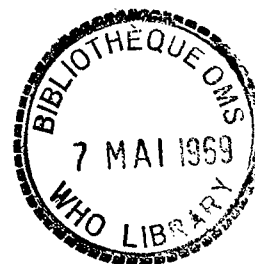




INTER-REGIONAL SEMINAR ON SMALLPOX ERADICATION

Lagos, Nigeria, 13-20 May 1969

COUNTRY REPORT



1.0 DEMOGRAPHIC DATA

1.1 Estimated population (July 1969)

Age		%
0-4	695 290	18.8
5-14	928 287	25.1
15-44	1 553 310	42.0
45+	517 770	14.0
TOTAL	3 694 657	99.9

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)

SE/69.21

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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

Vaccinators: Regular teams	<u>18</u>
Maintenance teams	<u>0</u>
Other (Specify)	<u>2</u>
TOTAL	<u>20</u>

Other field staff, including recorders, drivers, etc. 35

Supervisory personnel (paramedical) 2

4.2 Number of vaccinators directly supervised by one supervisor 2

4.3 Average number of vaccinations performed daily by each team:

	<u>1967-68</u>	<u>1968-69</u>
Regular teams	<u>2 037</u>	<u>1 897</u>
Maintenance teams	_____	_____
Other (specify)	<u>603</u>	<u>668</u>

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:

		Deputy Director
By country staff reviewing work of - Vaccination team:	<u>30</u>	days per mo.
	Other levels:	<u>7 - 14</u> days per mo.
By advisory staff reviewing work of -	1967/68	1968/69
	14 - 21	Vaccination team: <u>0 - 10</u> days per mo.
	7 - 21	Other levels: _____ 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 1967/68 - 7.0% 1968/69 - 1.2%

Steps taken when the proportion of successful primary vaccination falls below 95%
1) The medical officer checks the assessment results
2) Vaccine storage and vaccination techniques are carefully controlled.
3) Vaccine of doubtful potency is tested

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.

25 %

Steps taken if the coverage is not acceptable (i.e. revaccinate the area etc.)
1) Additional teams responsible to the Director of the programme
2) Stocks of vaccine given to local authorities

Changes which have been made in the programme as a direct result of

assessment Advance information teams requested to improve publicity - operational strategy modified

6.0 <u>COMMODITIES</u>					
	Col. 1	Col. 2	Col. 3	Col. 4	
6.1 Vaccine use:	Number of Doses Recd.	Number of Doses in Inventory	Number of Doses Used (Col.1-Col.2)	Number of Vacc. performed	Reasons for Difference between Col.3 and Col.4
Year					
1967	1 000 000	918 000	82 000	59 013	Total loss of 79 958
1968	1 450 000	660 000	1 708 000	1 678 279	Dose of
1969*	600 000	Total 754 000	(2 296 000) 506 000	(2 220 042) 482 750	3.5%
1967	160 000	146 500	13 500	13 432	
1968	280 000	42 350	384 150	278 741	90 000 doses were sent to Lagos, Sept. 68
1969*	80 000	Total 51 000	(469 000) 71 350	(376 583) 84 410	(1)
Adjusted totals			(366 400)	(370 128)	

Smallpox vaccine

Measles vaccine

6.2 Equipment:

<u>Item</u>	<u>Number Supplied</u> *	<u>Number in Operation</u>	<u>Comment</u>
Trucks	9	13	2 Land Rovers 2 Internationals
Ped-o-Jets	28	28	
Refrigerators	7	3 plus former measles campaign	(2)
Motorbikes	10	9	Lack of spare parts

* Since inception of the programme.

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

- (1) 12 600 doses deteriorated in the interior of the country. The number is estimated at more than 6 455
- (2) 4 Butagas models damaged by transport over bad roads

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 ²)	Densité de population au km ²
Geographic Subdivisions	Est. 1969 Population	Area (Square kms)	Population density per square km
GUINEA MARITIME	<u>980 700</u>	<u>45 508</u>	
Conakry	261 714	308	849.7
Boffa	88 672	6 003	14.8
Boké	125 618	11 053	11.4
Dubrêka	109 367	5 676	19.3
Forécariah	88 672	4 265	20.8
Fria	36 947	1 220	30.3
Kindia	136 702	8 828	15.5
Télimélé	133 008	8 155	16.3
MOYENNE GUINEE	<u>1 134 809</u>	<u>55 528</u>	
Labé	321 435	7 616	42.2
Dalaba	125 618	5 750	21.8
Gaoual	88 672	11 503	7.7
Koundara	59 115	5 500	10.7
Mali	146 213	8 800	16.6
Mamov	146 214	6 159	23.7
Pita	162 565	4 000	40.6
Tougué	84 977	6 200	13.7

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

TABLE 1. DEMOGRAPHIC DATA BY GEOGRAPHIC SUBDIVISION
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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
HAUTE GUINEE	<u>781 676</u>	<u>100 897</u>	
Kankan	199 511	27 488	15.6
Dabola	66 504	6 000	11.1
Dinguiraye	81 282	11 000	7.4
Faranah	109 367	12 397	8.8
Kérouané	29 557	4 230	7.0
Kouroussa	96 061	16 405	5.9
Siguiri	199 394	23 377	8.5
GUINEE FORESTIERE	<u>860 281</u>	<u>51 937</u>	
N'Zérékoré	221 679	10 183	21.8
Beyla	147 214	17 452	8.4
Guéckédou	140 396	4 157	33.8
Kissidougou	147 786	8 872	16.7
Macenta	140 397	8 710	16.1
Yomou	62 809	2 563	24.5
Total	3 757 466	253 870	14.6

TABLEAU 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+			
Month	M	F	M	F	M	F	M	F	Unknown Age/Sex	
J 1968	0	0	0	0	0	1	0	0	16	17
F	11	8	9	12	2	14	0	2	0	58
M	10	8	9	13	27	22	0	2	9	100
A	3	9	8	6	3	6	0	1	0	36
M	0	0	0	1	1	3	0	0	15	20
J	8	5	5	5	4	4	0	0	0	31
J	0	0	1	2	0	2	0	0	0	5
A	0	0	0	0	1	0	0	0	0	1
S	0	0	0	1	0	0	0	0	0	1
O	4	0	1	1	2	4	0	1	0	13
N	5	8	3	8	4	18	3	1	0	50
D	1	0	1	0	0	0	0	0	0	2
J 1969	2	2	2	3	1	2	0	0	0	12
F	0	0	0	0	0	0	0	0	0	0
Total	44	40	39	52	45	76	3	7	40	346
% de cas	12.7	11.6	11.3	15.0	13.0	22.0	0.9	2.0	11.6	100.1%
% par age	24.3		26.3		35.0		2.9		11.6	100.1%
% par sexe	Masculine 131 ou 37.9%				Féminine 175 ou 50.6%				11.6	100.1%

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 Geographic Subdivisions	1967	1er trim. 1968 First Quarter	2ème trim. 1968 Second Quarter	3ème trim. 1968 Third Quarter	4ème trim. 1968 Fourth Quarter	J-F 1969	Total général* Grand total*
GUINEE MARITIME	499 311	209 864	116 656	18 444	49 978	363 032	1307 285
Conakry	183 357	0	0	0	0	225 712	409 069
Boffa	50 408	14 442	110 191	7 264	876	0	183 181
Boké	25 463	33 380	15 910	578	9 887	115 131	200 349
Dubréka	30 283	427	0	0	0	0	30 710
Forécariah	93 177	31 298	9 151	10 602	36 622	19 171	200 021
Fria	10 200	30	30 508	0	0	0	40 738
Kindia	52 443	128 680	0	0	2 593	3 018	186 734
Télimélé	53 980	1 607	896	0	0	0	56 483
MOYENNE GUINEE	406 948	188 229	71 157	3 325	678 072	141 640	1489 371
Labé	123 721	20 816	0	0	238 999	459	383 995
Dalaba	36 388	2 398	37 836	203	104 696	733	182 254
Gaoual	33 325	40	9 084	0	0	76 127	118 576
Koundara	31 089	4 429	4 736	997	2 807	64 321	108 379
Mali	24 651	0	0	0	107 662	0	132 313
Mamou	25 350	126 029	1 585	0	0	0	152 964
Pita	100 281	27 159	11 200	0	150 048	0	288 688
Tougué	32 143	7 358	6 716	2 125	73 860	0	122 202

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

* Includes the total since the inception of the programme.

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 Geographic Subdivisions	1967	1er trim. 1968 First Quarter	2ème trim. 1968 Second Quarter	3ème trim. 1968 Third Quarter	4ème trim. 1968 Fourth Quarter	J-F 1969	Total général* Grand total*
HAUTE GUINEE	89 760	139 054	6 668	2 705	2 412	10 901	251 500
Kankan	19 390	2 905	6 458	1 801	1 545	594	32 693
Dabola	3 661	50 671	0	0	0	0	54 332
Dinguiraye	18 720	7 111	0	0	0	0	25 831
Faranah	19 859	62 938	0	0	0	0	82 797
Kérouané	331	1 009	0	0	0	0	1 340
Kouroussa	682	4 418	0	17	0	459	5 576
Siguiri	27 117	10 002	210	887	867	9 848	48 931
GUINEE FORESTIERE	72 237	238 795	278 424	4 115	4 228	26 630	624 429
N'Zérékoré	9 706	2 211	139 337	3 057	4 228	26 200	184 739
Beyla	13 178	0	0	0	0	0	13 178
Guéckédou	17 492	117 671	5 311	1 058	0	0	141 532
Kissidougou	22 967	118 913	2 584	0	0	430	144 894
Macenta	7 268	0	88 760	0	0	0	96 028
Yomou	1 626	0	42 432	0	0	0	44 058
Total	1068 256	775 942	522 905	28 589	734 690	542 203	3672 585

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

* Includes the total since the inception of the programme.

PAYS GUINEA/GUINEE

COUNTRY

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				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
GUINEE MARITIME																<u>99</u>	<u>152</u>	
Conakry	2									15	30	56			103	95	81	
Boffa				4		6	52							62				
Boké										39	6			45			4	
Dubréka	5		1	3		2	1		1			1		14				
Forécariah														0				
Fria		3	6	78	26	27	23					1		164	1	6		
Kindia	10		1			1								13	3	2		
Télimélé		2		3	13	35	1							54		59		
MOYENNE GUINEE														<u>151</u>	<u>15</u>	<u>28</u>		
Labé														0				
Dalaba				5	11	22								38	7			
Gaoual				16										16	5	6		
Koundara														0				
Mali				2	2							6	10			9		

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		
MOYENNE GUINEE																	
Mamou	14	3	56		1	1						1	76	3	13		
Pita					5	5				1			11				
Tougué													0				
HAUTE GUINEE													<u>526</u>	<u>1</u>	<u>244</u>		
Kankan				78	99	95	49						321		214		
Dabola	1		1	3			1						6	1	3		
Dinguiraye										1	1		2		46		
Faranah													0				
Kérouané					172		3		8			1	184		81		
Kouroussa													0				
Siguiri					13								13				

PAYS GUINEE/GUINEE

COUNTRY

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	D	N	O	S	A	J	J	M	A	M	J	J	F
	J	F	M	A	M	A	M	J	J	J	A	S	O	N														
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									
GUINEE FORESTIERE																												
N'Zérékoré	1			1											1	6	8		4									
Beyla	2	2	44	2	15	12	2					1																
Guéckédou		3	4	15	3	3	1																					
Kissidougou	2	2	18	26		20		18																				
Macenta																												
Yomou	1	13	3	11					28																			
Total	38	28	134	247	360	229	133	18	37	57	44	75	1400	119	524													

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*
GUINEE MARITIME						
Conakry	951**				39 279	40 230
Boffa		12 929				12 929
Boké					19 697	19 697
Dubréka						
Forécariah	12 481**					12 481
Fria		5 540				5 540
Kindia	21 158					21 158
Télimélé						
MOYENNE GUINEE						
Labé				31 732		31 732
Dalaba				17 194		17 194
Gaoual					14 100	14 100
Koundara					11 334	11 334
Mali				17 020		17 020
Mamou	23 533					23 533
Pita				23 320		23 320
Tougué				13 058		13 058

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

* Includes the total since the inception of the programme.

** Forécariah et Conakry: Décembre, 1967.

** Forécariah and Conakry: December, 1967.

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)

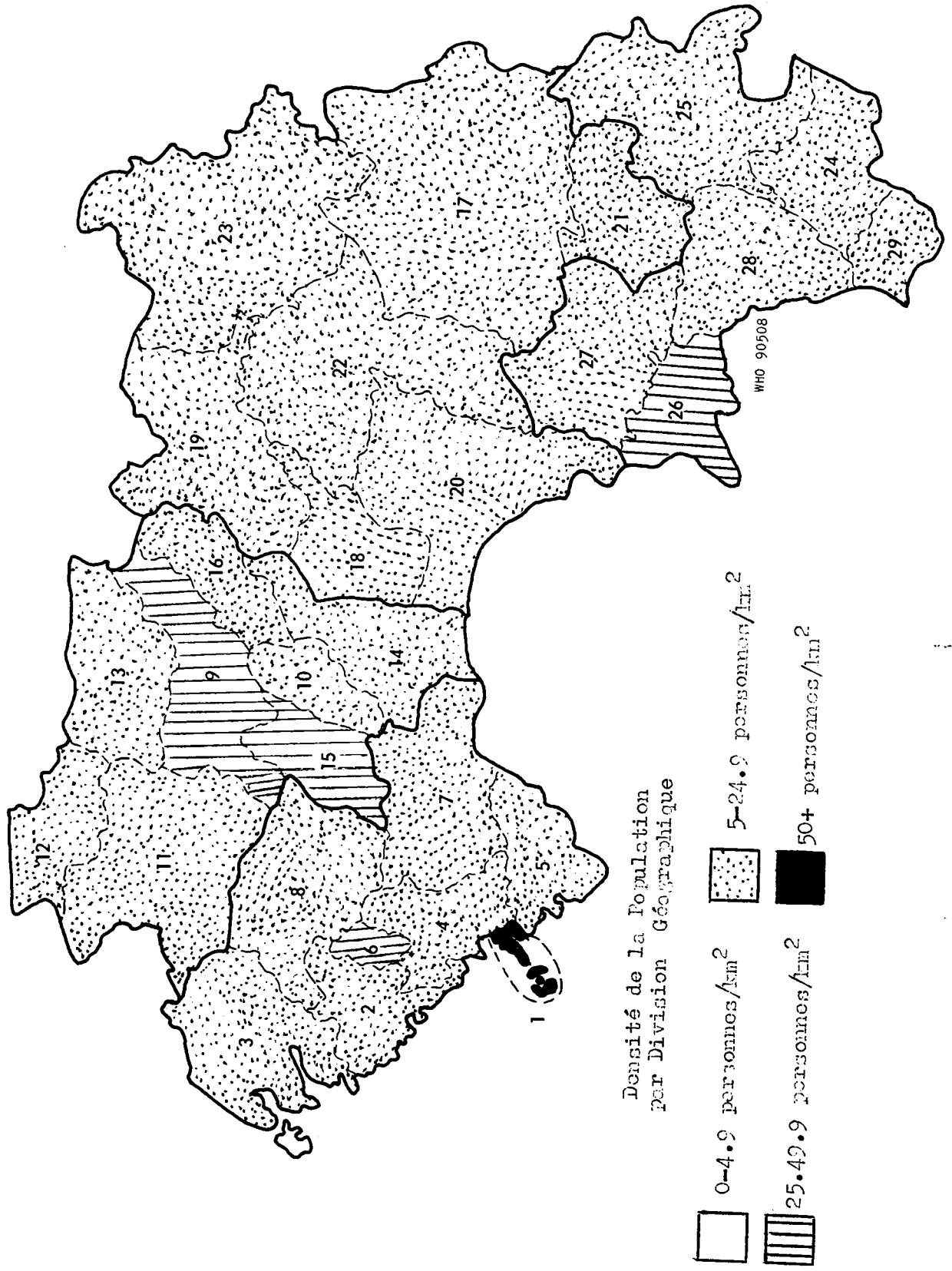
Division géographique	1 ^{er} trim. 1968	2 ^{ème} trim. 1968	3 ^{ème} trim. 1968	4 ^{ème} trim. 1968	Janvier-février 1969	Total général*
Geographic Subdivisions	First Quarter	Second Quarter	Third Quarter	Fourth Quarter		Grand total*
HAUTE GUINEE						
Kankan						
Dabola	8 247					8 247
Dinguiraye						
Faranah	10 578					10 578
Kérouané						
Kouroussa						
Siguiri						
GUINEE FORESTIERE						
N'Zérékoré		27 101				27 101
Beyla						
Guékédou	21 607					21 607
Kissidougou	21 413					21 413
Macenta		17 886				17 886
Yomou		6 425				6 425
Total	119 968**	69 881	0	102 324	84 410	376 583

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

* Includes the total since the inception of the programme.

** Forécariah et Conakry: Décembre, 1967.
Forécariah and Conakry: December, 1967.

FIGURE 1
GUINEA



GUINÉE MARITIME

1. Conakry
2. Boffa
3. Boké
4. Dubréka
5. Forécariah
6. Fria
7. Kindia
8. Télimehé

MOYENNE GUINÉE

9. Labé
10. Dalaba
11. Gaoual
12. Koundara
13. Mali
14. Mamou
15. Pita
16. Tougué

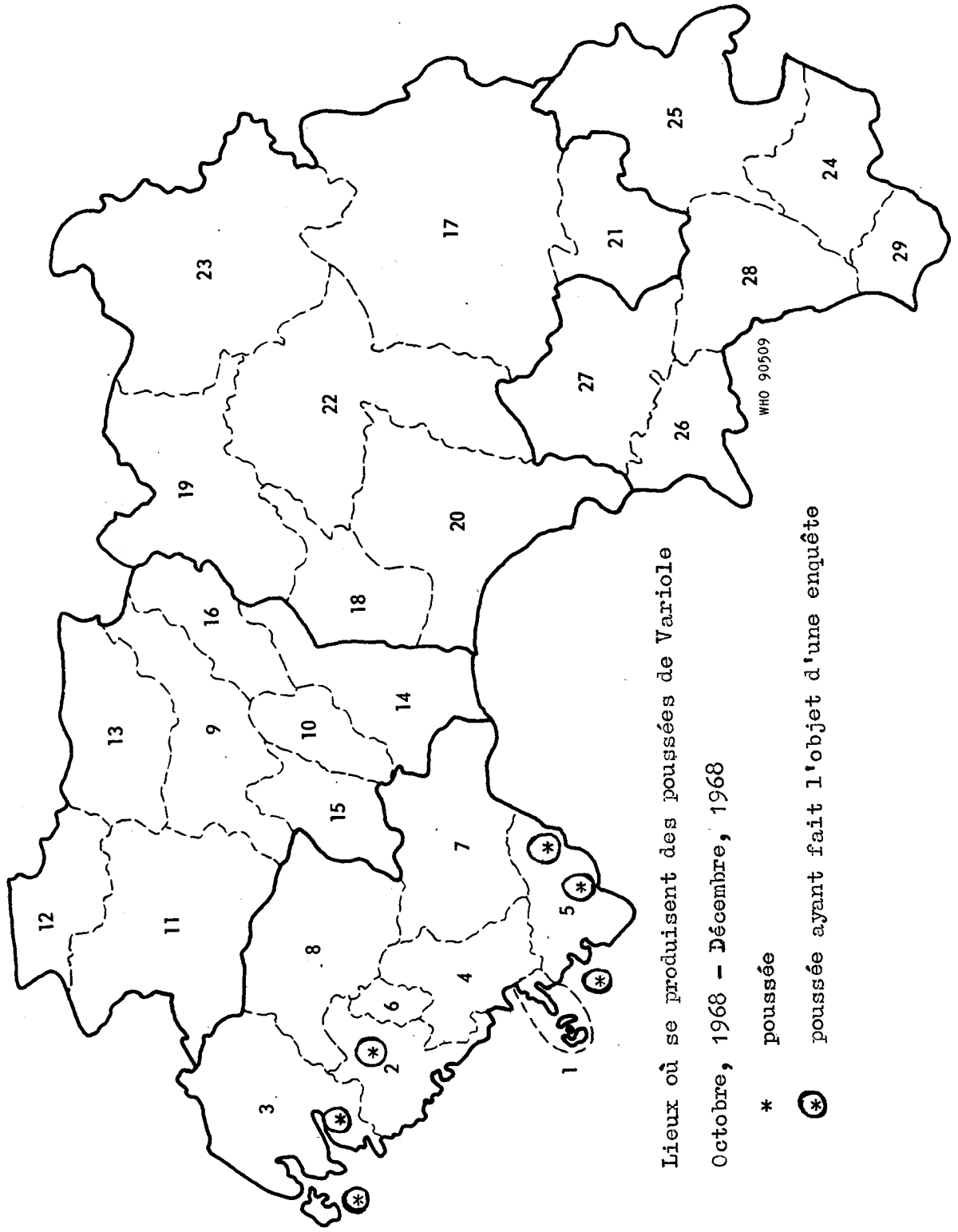
HAUTE GUINÉE

17. Kankan
18. Dabola
19. Dingiraye
20. Faranah
21. Kérouané
22. Kouroussa
23. Siguiri

GUINÉE FORESTIERE

24. N'Zérékoré
25. Bayla
26. Guéckédou
27. Kissidougou
28. Macenta
29. Yomou

FIGURE 2
GUINEA



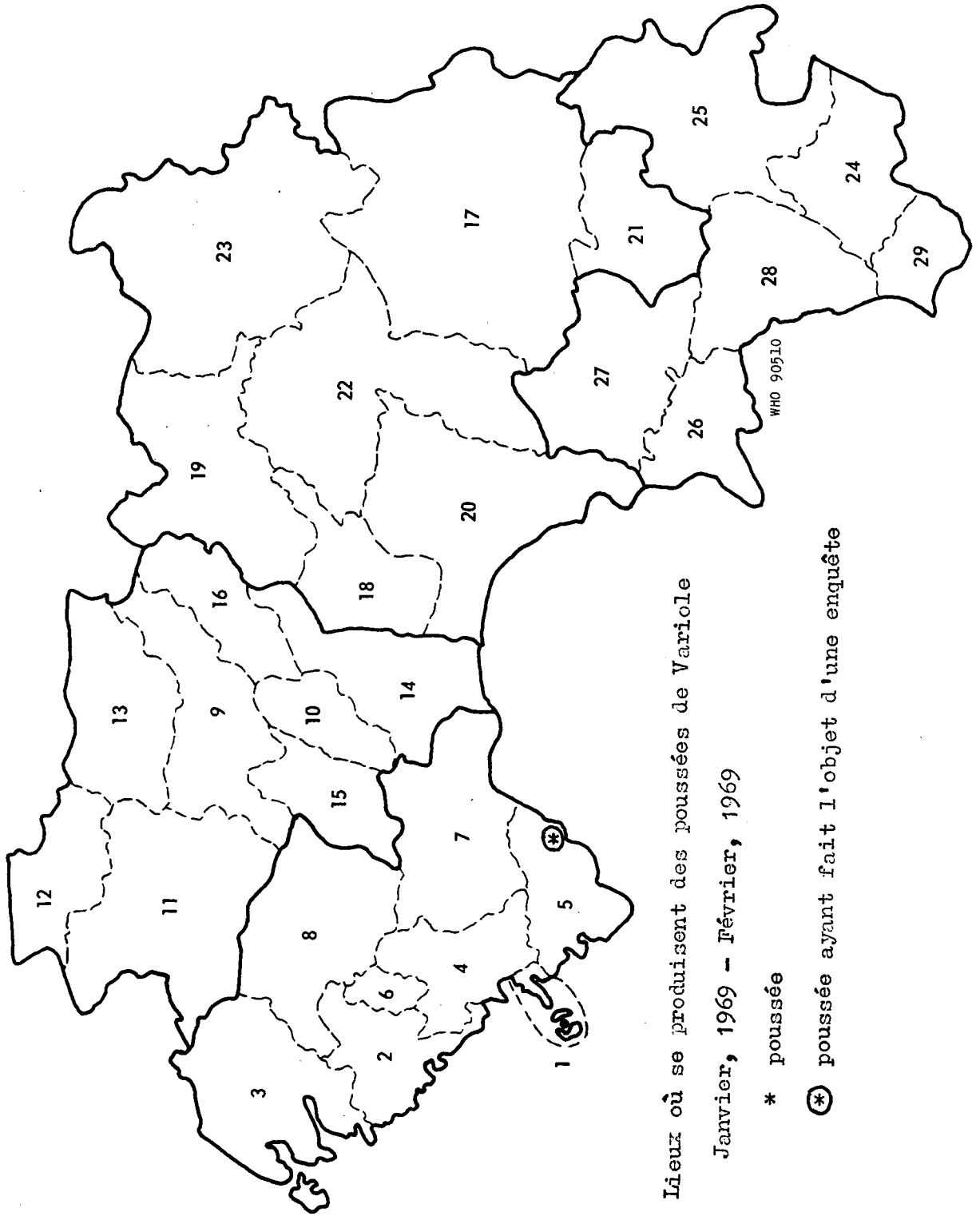
Lieux où se produisent des poussées de Variole

Octobre, 1968 - Décembre, 1968

* poussée

⊛ poussée ayant fait l'objet d'une enquête

FIGURE 3
GUINEA



Lieux où se produisent des poussées de Variole
Janvier, 1969 - Février, 1969

* poussée

(*) poussée ayant fait l'objet d'une enquête

FIGURE 4

GUINEA

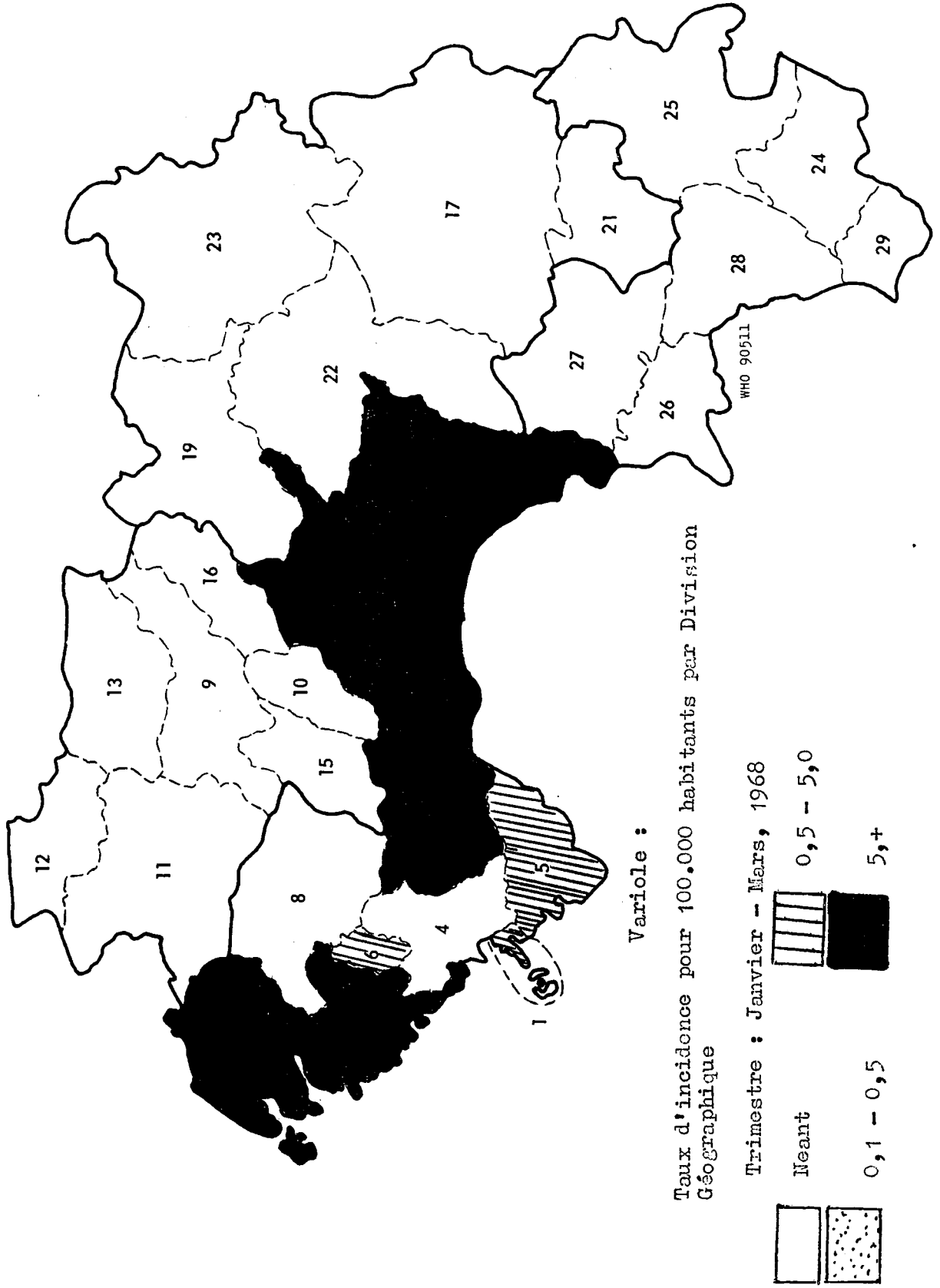


FIGURE 5

GUINEA

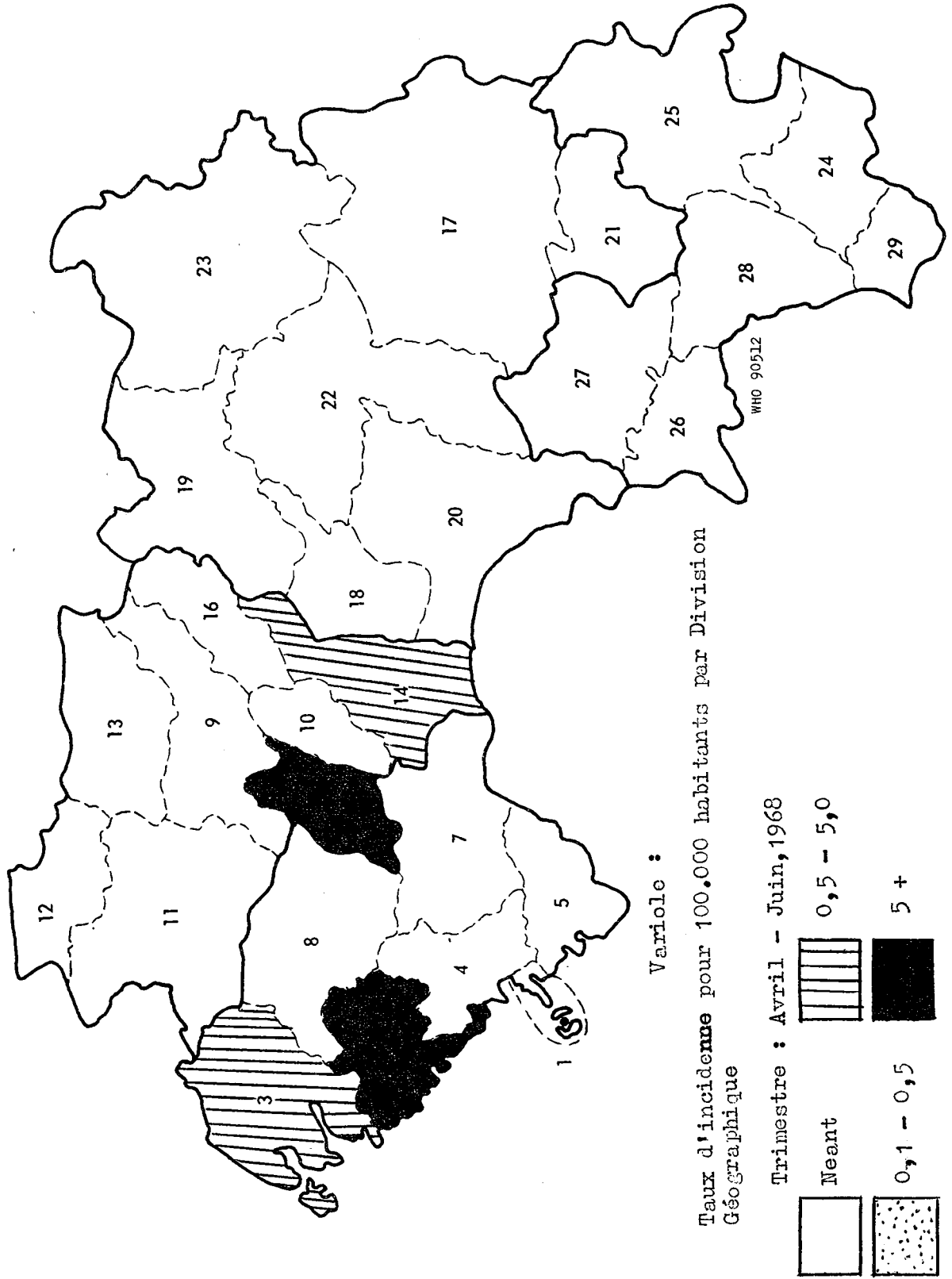


FIGURE 6
GUINEA

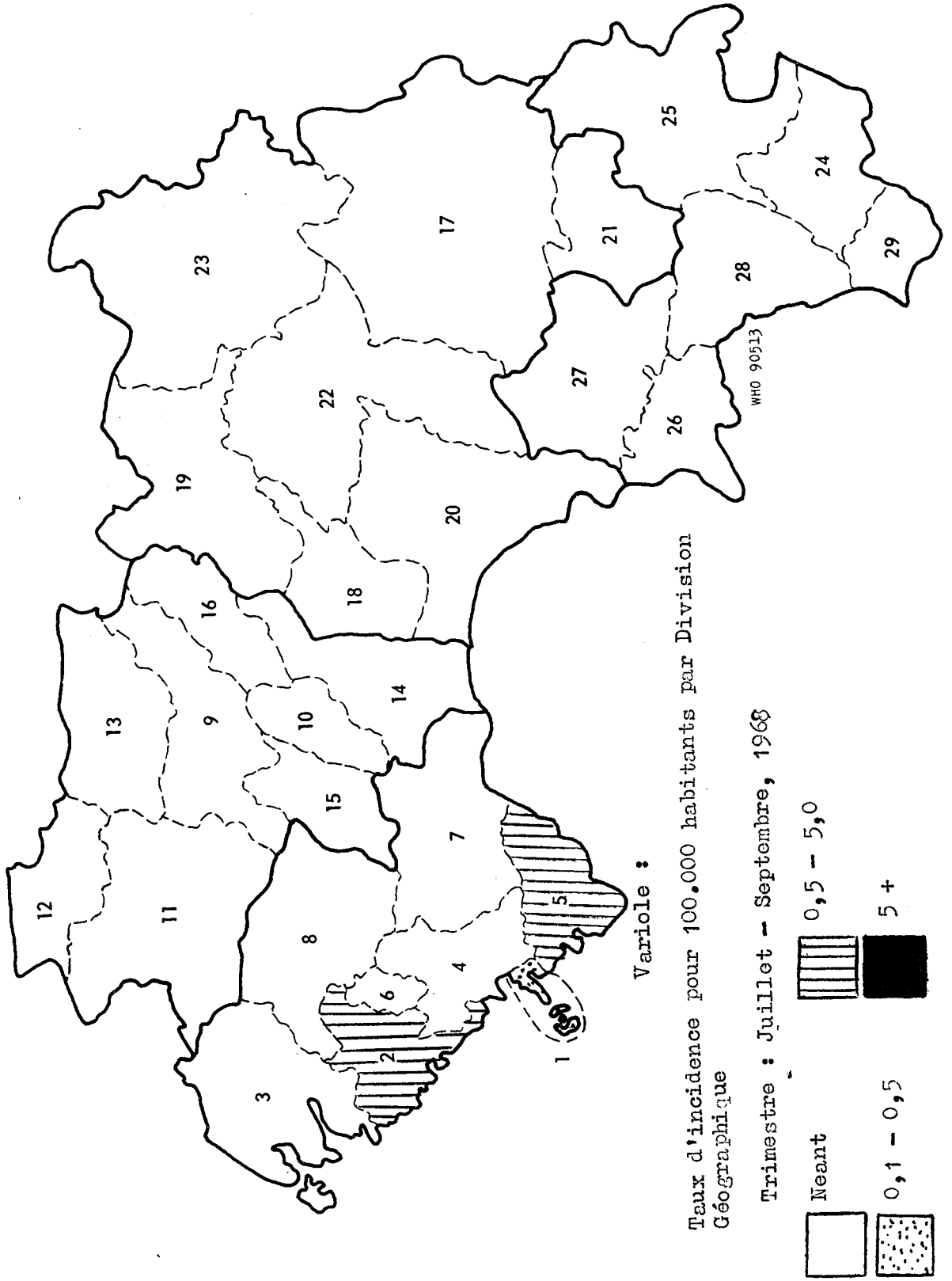


FIGURE 7
GUINEA

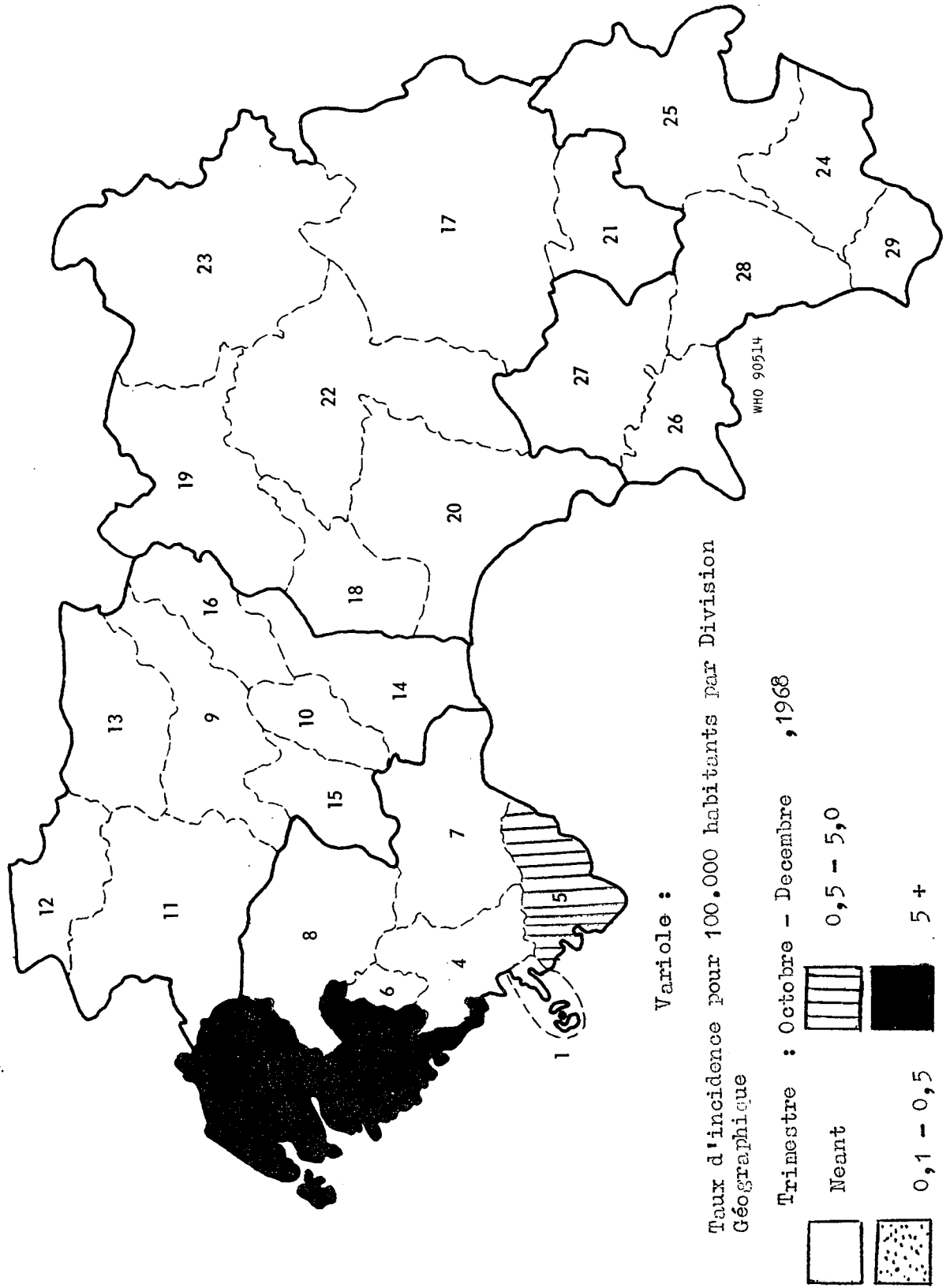


FIGURE 8

GUINEA

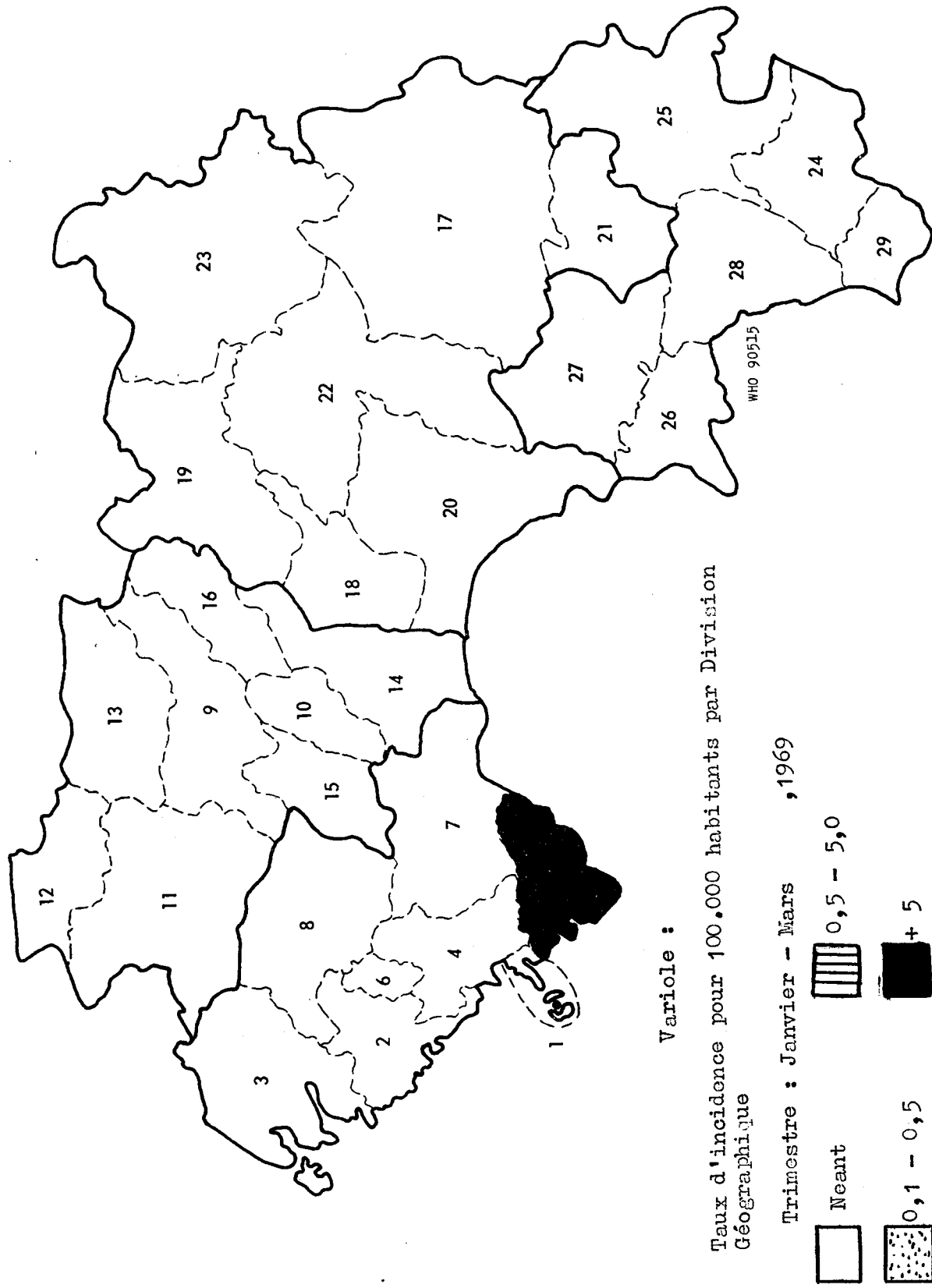


FIGURE 9 et FIGURE 10
GUINEA

