



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	710 000	18.6
5-14	1 110 000	29.2
15-44	1 510 000	39.7
45+	475 000	12.5
TOTAL	3 805 000	100.0

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/69.19

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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>12</u>	(6 teams)
Maintenance teams	<u>0</u>	
Other (Specify)	<u>6</u>	(3 departmental teams)
TOTAL	<u>18</u>	

Other field staff, including recorders, drivers, etc. 20

Supervisory personnel (paramedical) 2

4.2 Number of vaccinators directly supervised by one supervisor 12

4.3 Average number of vaccinations performed daily by each team:

Regular teams 700 - 1 500

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

Other (specify) 700 - 1 500

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: 10 days per mo.

Other levels: 2 days per mo.

By advisory staff reviewing work of -

Vaccination team: 5 days per mo.

Other levels: 5 days per mo.

5.1.2 Measures taken when vaccinator or assessor performance is unsatisfactory

Reprimand, replacement

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 20%

Steps taken when the proportion of successful primary vaccination falls below 95% Always greater than 95%

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.

40 %

Steps taken if the coverage is not acceptable (i.e. revaccinate the area etc.) Revaccinate the villages if possible

Changes which have been made in the programme as a direct result of assessment The teams spend longer periods in gathering crowds and a government official accompanies each team



6.0 COMMODITIES

	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					
<u>Smallpox vaccine</u> 1967	2 425 000	674 500	1 750 500	1 590 473	Use of 500 dose vials is wasteful in small villages
1968	800 000	0	1 474 500	1 166 292	
1969*	550 000	144 000	406 000	205 783	Field stations have modest vaccine stocks
<u>Measles vaccine</u> 1967	290 000	18 000	272 000	220 001	(1)
1968	200 000	200	217 800	195 157	
1969*	80 000	19 750	60 450	54 541	

\* January and February only

6.2 Equipment:

Item	Number Supplied*	Number in Operation	Comment
Trucks	8	7	One wrecked in road accident
Ped-o-Jets	38	29	4 being repaired 5 are spares in Niamey
Refrigerators	9 C-80's 8 Morphy Richards	4 8	(2)
Motorbikes	12	9	3 transferred to SEP, Upper Volta

\* Since inception of the programme.

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

- (1) Inadequate field refrigeration early in programme caused much vaccine wastage  
 (2) 4 in use as stationary units. C-80 is impractical as mobile unit. M.R are mobile units



PAYS **LE NIGER**  
COUNTRY

TABLEAU 2. CAS DE VARIOLE PAR MOIS ET PAR DIVISION GEOGRAPHIQUE (JUSQU'À 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	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			
Niamey	15	37	37	9	0	0	0	0	0	0	0	0	0	0	0	98	0	0
Dosso	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
Tahoua	0	11	2	28	20	3	1	0	0	1	0	9	75	0	0		0	0
Maradi	1	0	0	1	9	28	5	0	0	1	0	0	45	0	4		0	0
Zinder	149	15	19	20	36	46	4	0	0	0	0	0	289	2	1		0	0
Diffa	0	1	0	154	4	6	0	0	0	0	0	0	165	0	0		0	0
Agadez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
TOTAL	168	65	58	212	69	83	10	0	0	2	0	9	676	2	5			

PAYS LE NIGER  
COUNTRY

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+		Unknown Age/Sex	
Month	M	F	M	F	M	F	M	F		
J 1968									168	168
F									65	65
M									58	58
A									212	212
M									69	69
J									83	83
J									10	10
A									0	0
S									0	0
O			1	1					0	2
N									0	0
D	4	5							0	9
J 1969			1	1					0	2
F			2	1	1	1			0	5





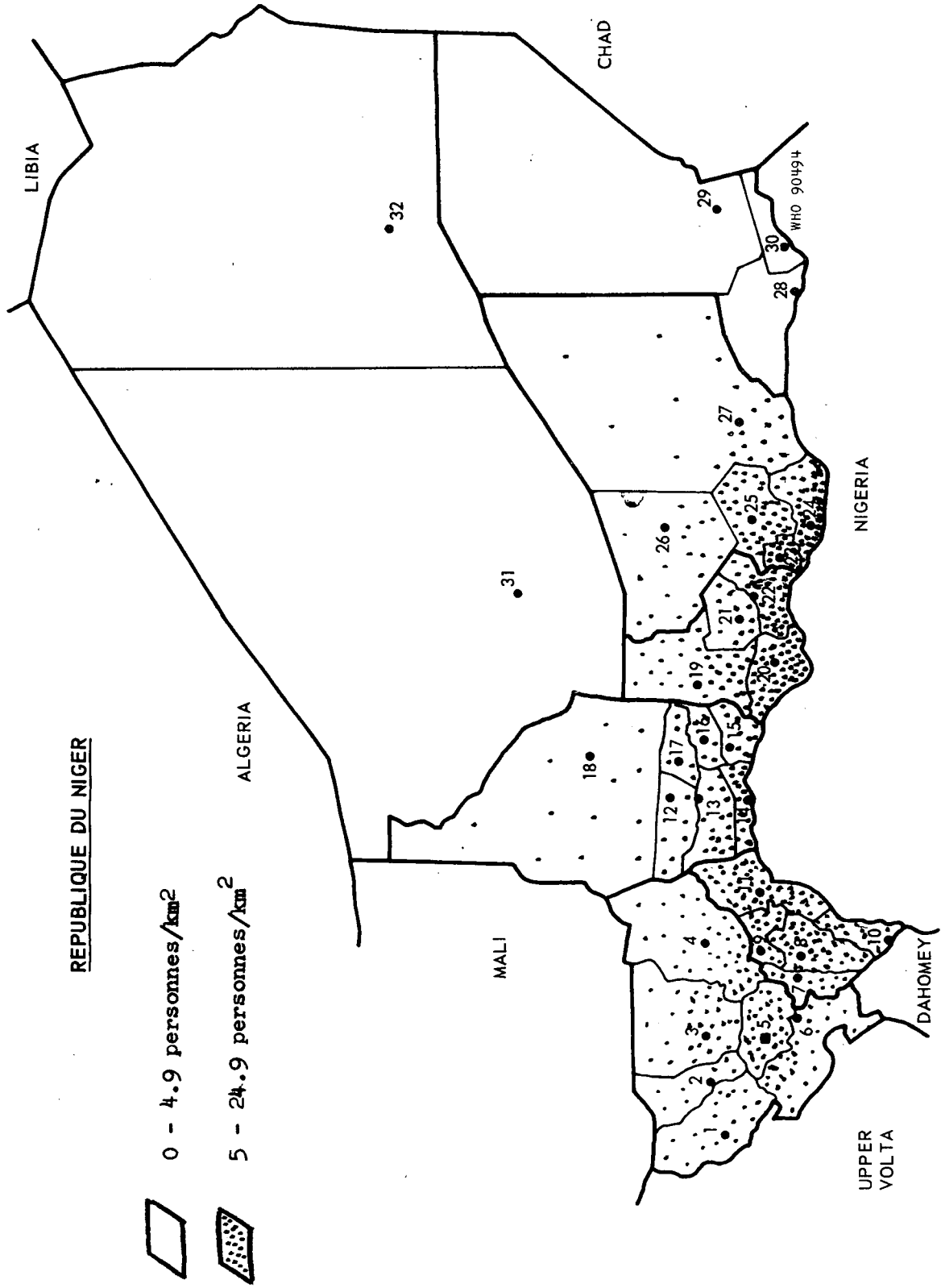
TABLEAU 6. CAS DE ROUGEOLE DECLARES DE JANVIER 1968 JUSQU'A FEVRIER 1969 COMPRIS  
TABLE 6. REPORTED MEASLES CASES JANUARY 1968 (THROUGH FEBRUARY 1969)

Division géographique	Nombre de cas par mois/Number of cases by month												1969		
	1968												J	Total	
Geographic Subdivisions	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
Niamey	135	78	406	403	367	241	55	54	74	97	124	205	2 239	2 413	1 905
Dosso	2	22	43	38	118	49	92	16	10	22	49	140	601	679	1 131
Tahoua	5	103	292	229	318	404	213	457	47	48	345	750	3 211	611	487
Maradi	38	112	234	228	251	269	344	134	36	12	12	25	1 695	117	185
Zinder	76	158	801	717	735	263	42	3	0	0	0	0	2 795	15	28
Diffa	0	3	45	141	91	85	33	5	0	0	1	4	408	31	0
Agadez	257	48	21	12	4	19	3	0	0	1	0	0	365	1	0
Total													11 314	3 867	3 736



**Figure 1 (1.4)**

**DENSITÉ DE LA POPULATION**



## LEGEND

### DEPARTEMENTS

NIAMEY

DOSSO

TAHOUA

MARADI

ZINDER

DIFFA

AGADEF

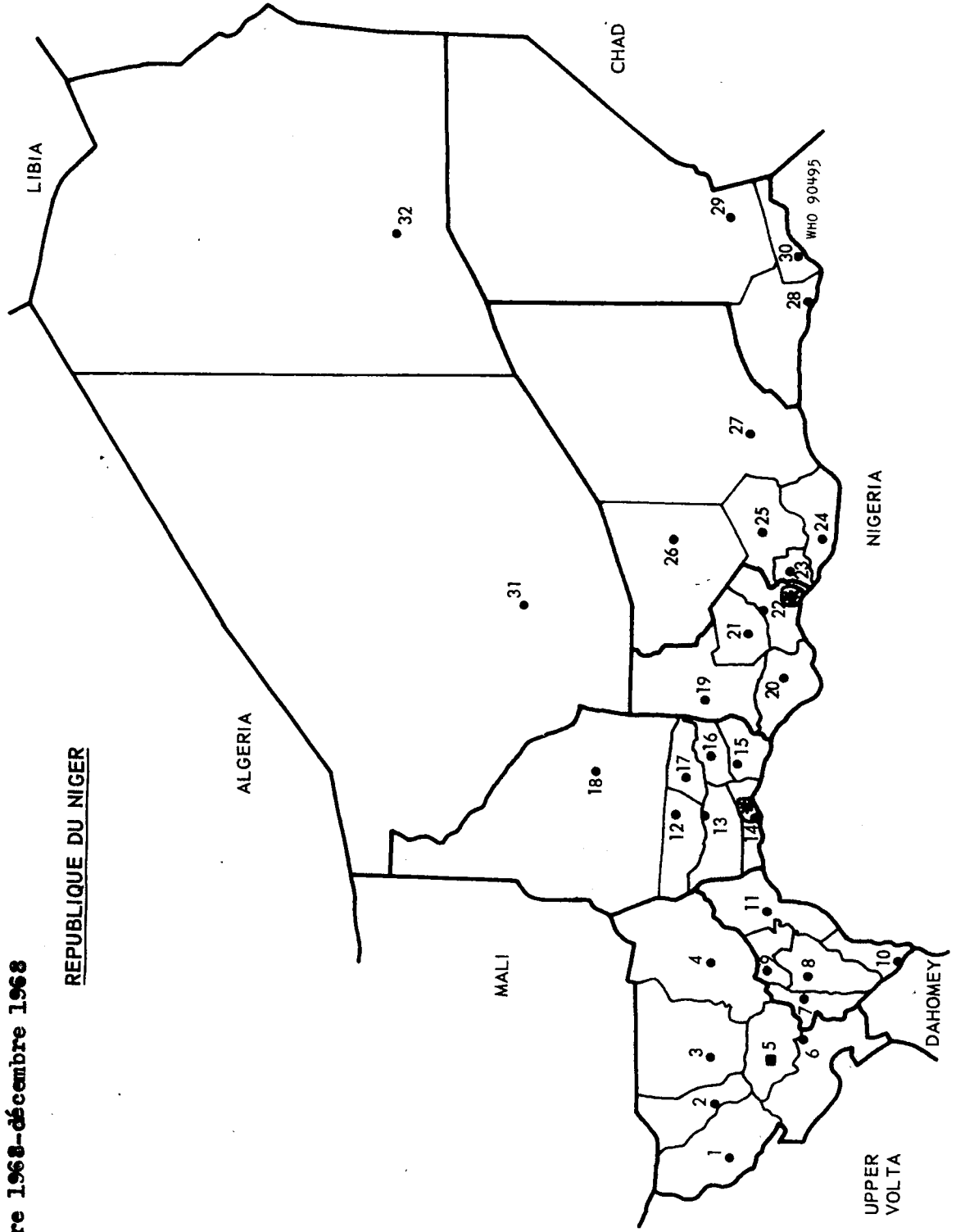
### ARRONDISSEMENTS

1. Tera
2. Tillaberi
3. Ouallam
4. Filingue
5. Niamey
6. Say
7. Birni N'Gaoure
8. Dosso
9. Loga
10. Gaya
11. Dogondoutchi
12. Tahoua
13. Illéla
14. Birni N'Konni
15. Madaoua
16. Bouza
17. Keita
18. Tchintabaraden
19. Dakoro
20. Maradi
21. Mayahi
22. Tessaoua
23. Matameye
24. Magaria
25. Myrria
26. Tanout
27. Goure
28. Mainé-Soroa
29. N'Guigmi
30. Diffa
31. Agadez
32. Bilma

Figure 2 (2.2)

POUSSEES

Octobre 1968-décembre 1968



**Figure 3 (2.2)**

**POUSSEES**

**Janvier 1969-février 1969**

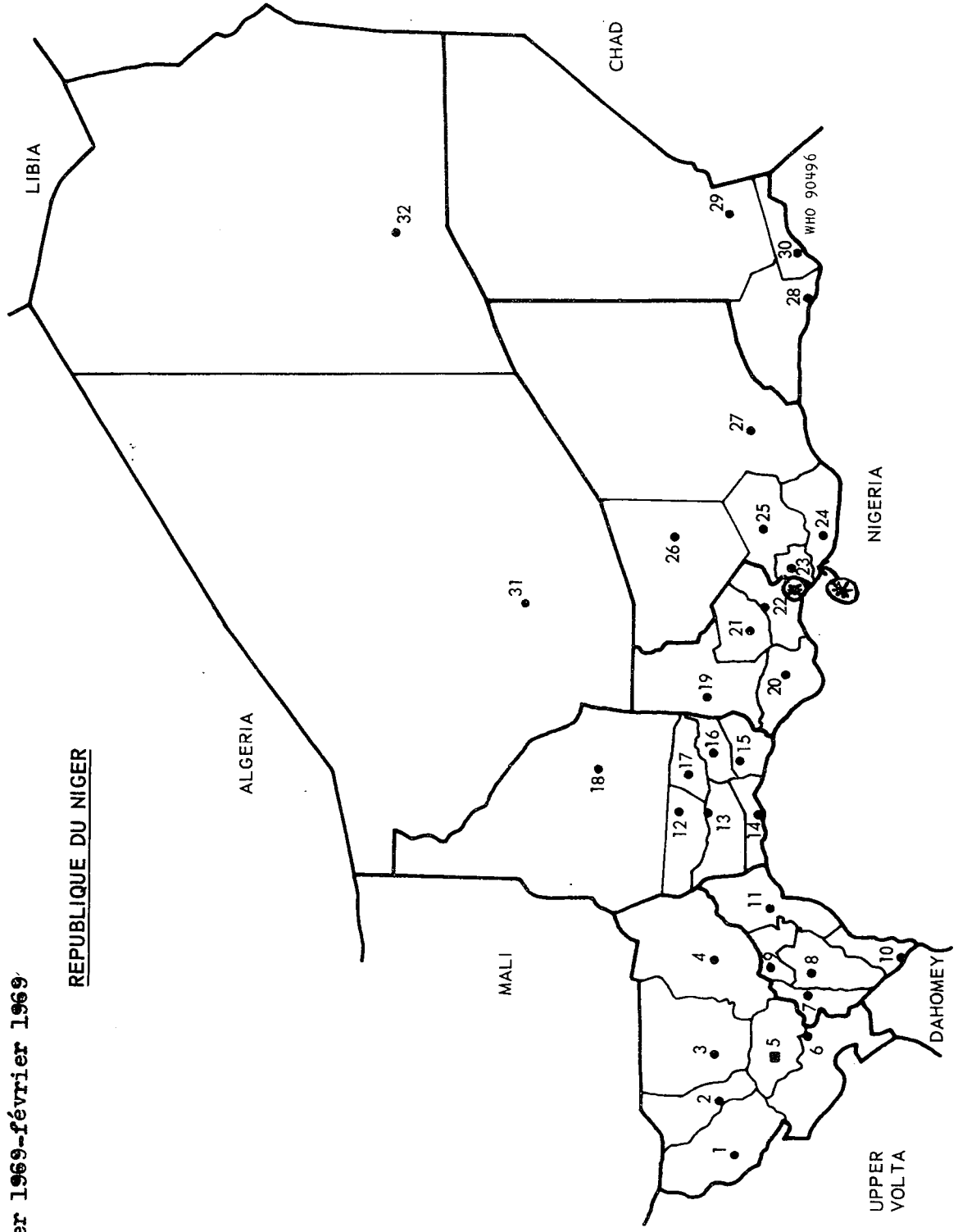


Figure 4 (2.3)

TAUX D'INCIDENCE POUR 100.000 HABITANTS

Janvier 1968-mars 1968

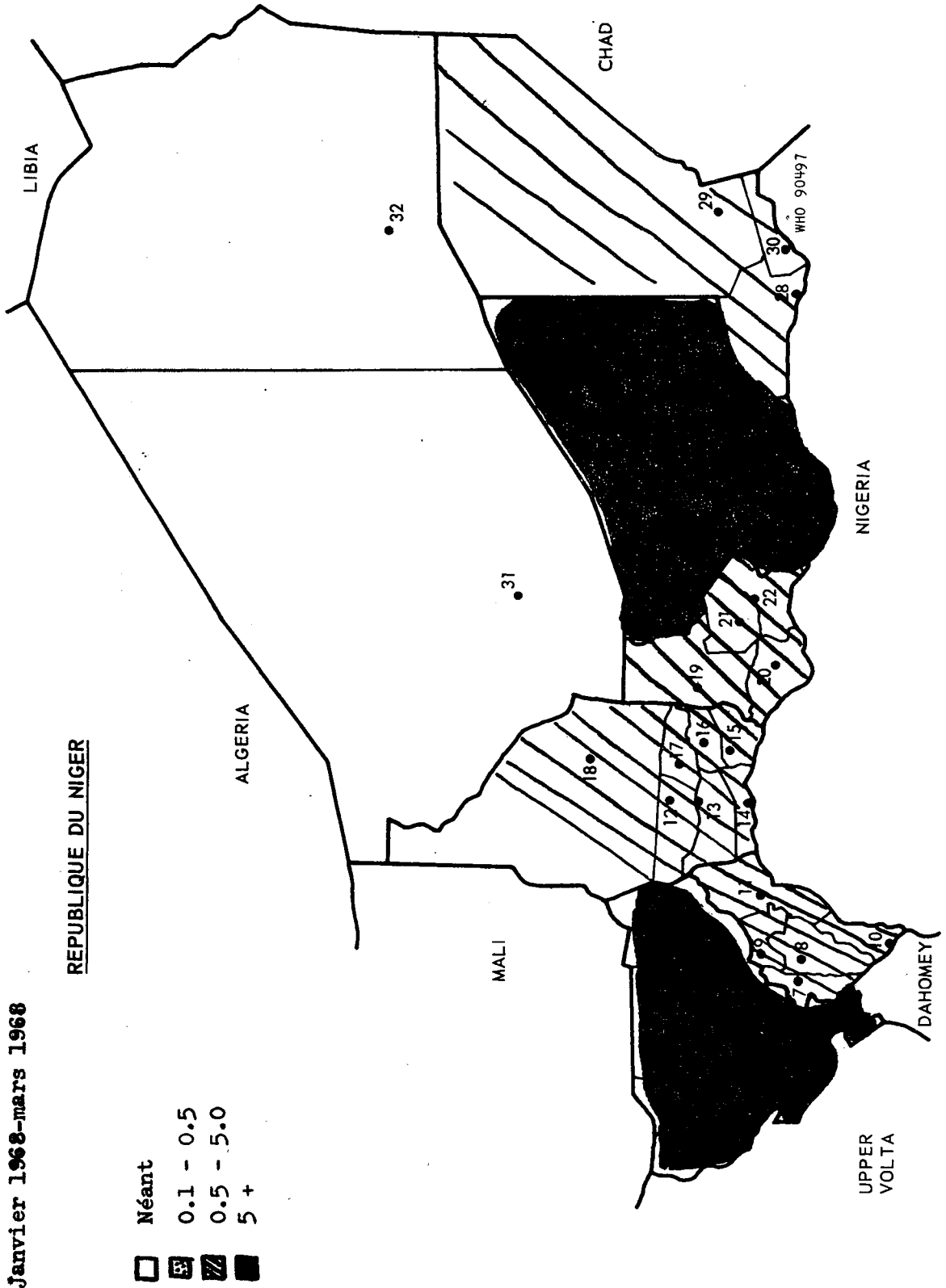


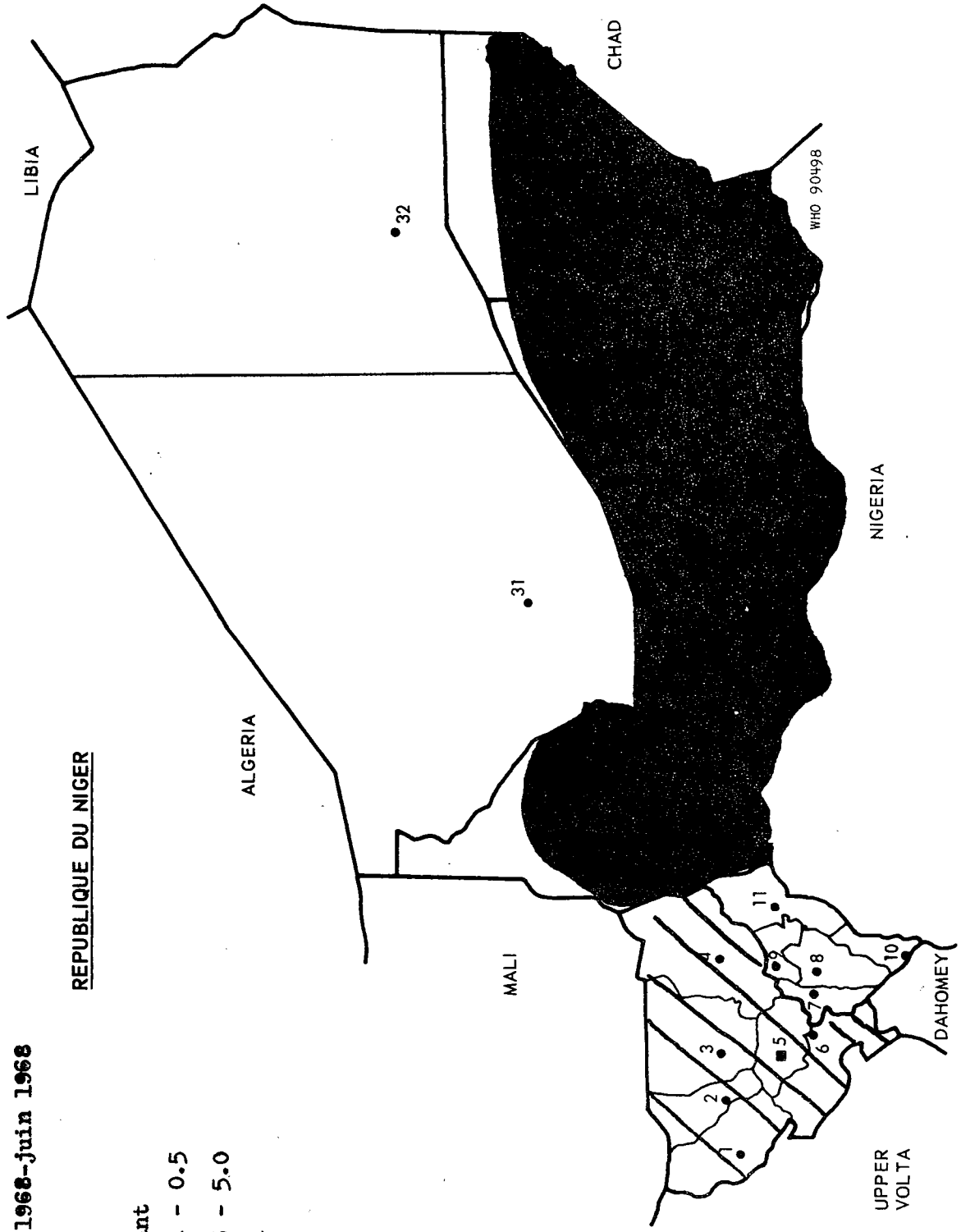
Figure 5 (2.3)

TAUX D'INCIDENCE POUR 100.000 HABITANTS

Avril 1968-juin 1968

REPUBLIQUE DU NIGER

- Néant
- ▨ 0.1 - 0.5
- ▩ 0.5 - 5.0
- 5 +



**Figure 6 (2.3)**  
**TAUX D'INCIDENCE POUR 100.000 HABITANTS**  
**Juillet 1968-septembre 1968**

**REPUBLIQUE DU NIGER**

- Néant
- ▨ 0.1 - 0.5
- ▧ 0.5 - 5.0
- 5 +

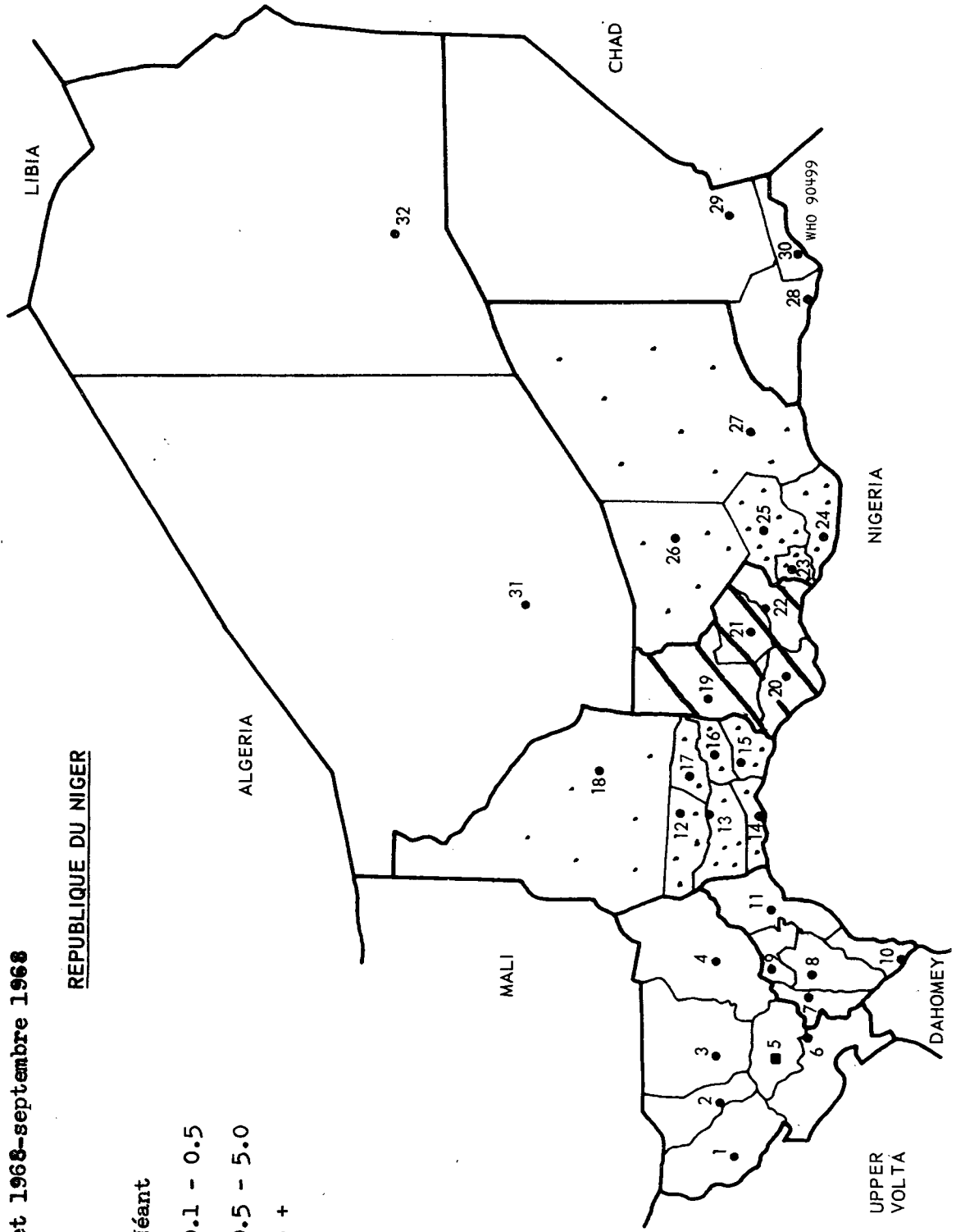


Figure 7 (2.3)

TAUX D'INCIDENCE POUR 100.000 HABITANTS

Octobre 1968-décembre 1968

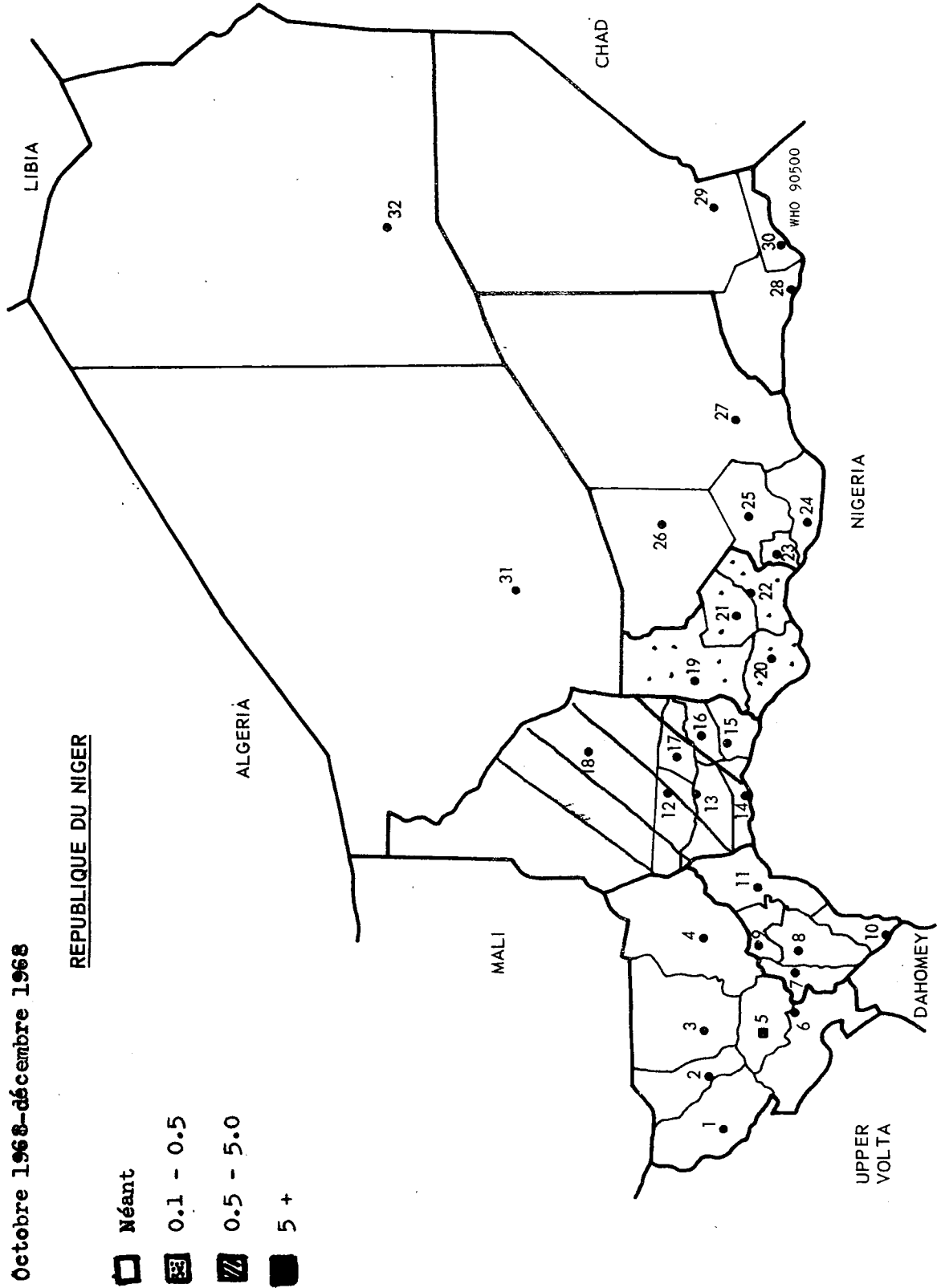
REPUBLIQUE DU NIGER

□ Néant

▨ 0.1 - 0.5

▩ 0.5 - 5.0

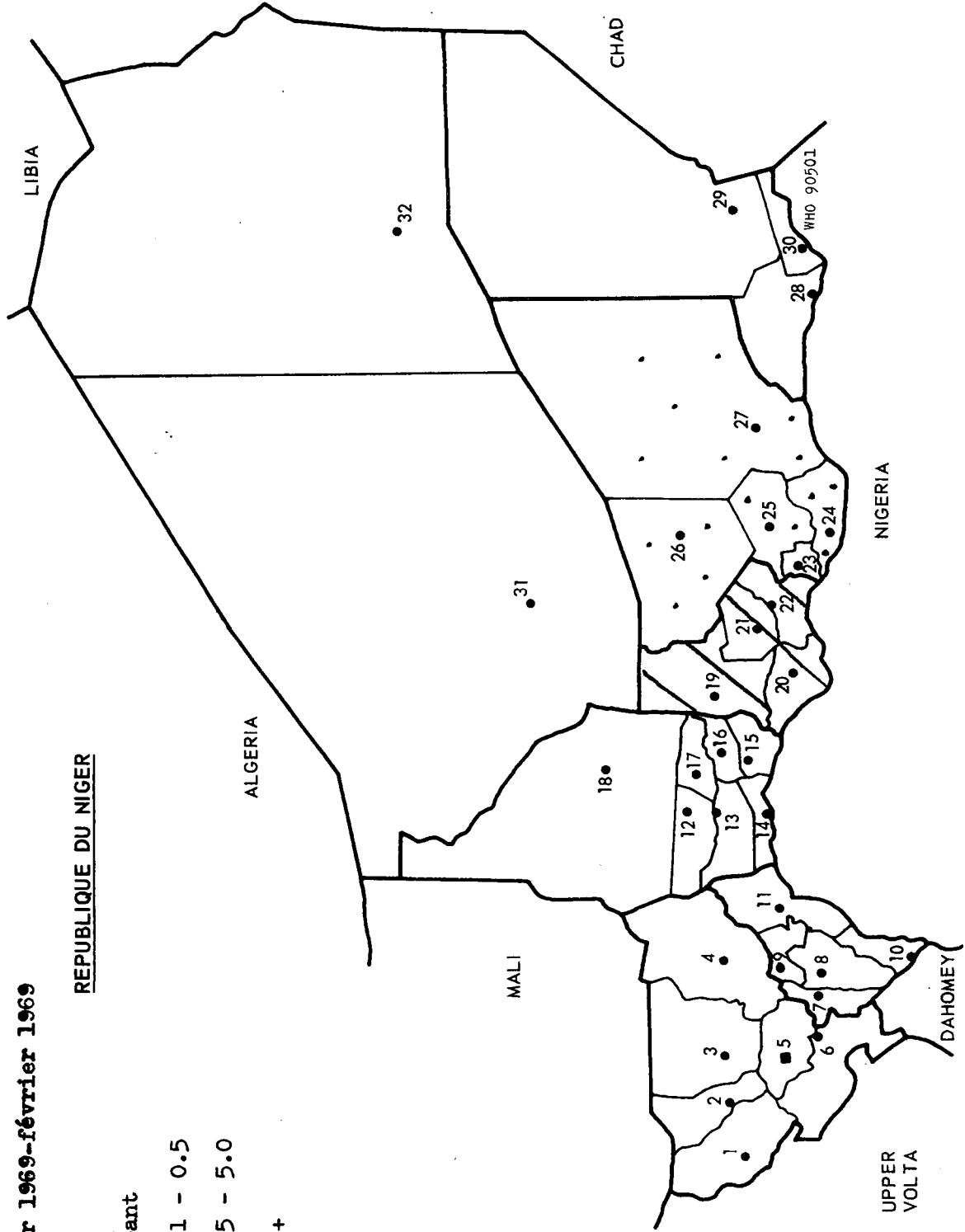
■ 5 +



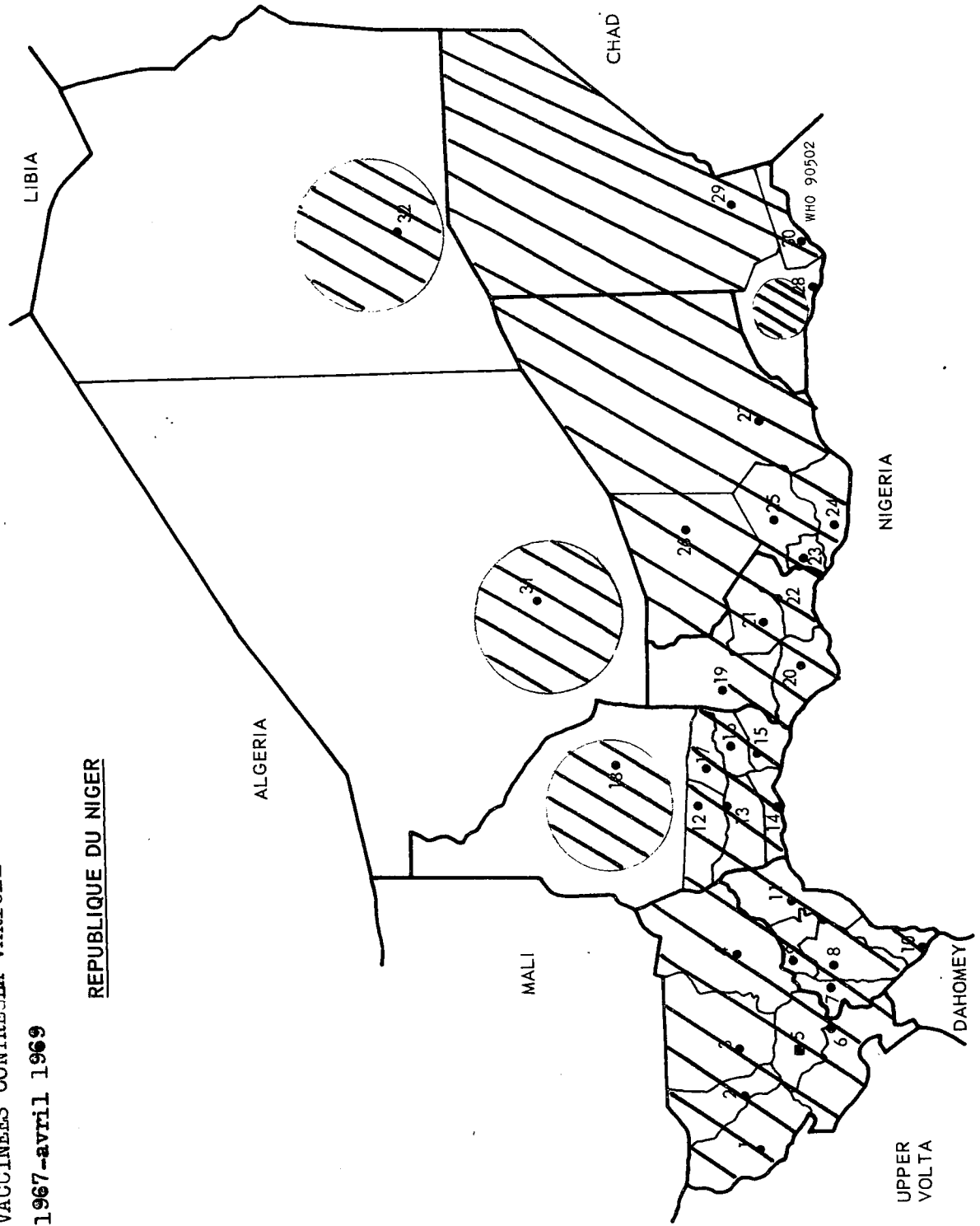
**Figure 8 (2.3)**  
**TAUX D'INCIDENCE POUR 100.000 HABITANTS**  
**Janvier 1969-février 1969**

**REPUBLIQUE DU NIGER**

- Néant
- ▨ 0.1 - 0.5
- ▧ 0.5 - 5.0
- 5 +



**Figure 9 (2.6)**  
**RÉGIONS VACCINÉES CONTRE LA VARIOLE**  
**Janvier 1967-avril 1969**



**Figure 10 (3.3)**  
**RÉGIONS PARTIELLEMENT VACCINÉES CONTRE LA ROUGEOLE**  
**janvier 1967 - avril 1969**

