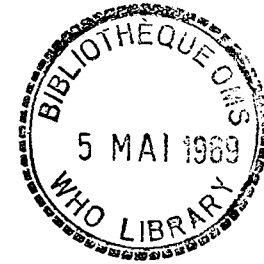




INTER-REGIONAL SEMINAR ON SMALLPOX ERADICATION

Lagos, Nigeria, 13-20 May 1969

COUNTRY REPORT



INDEXED

1.0 DEMOGRAPHIC DATA

1.1 Estimated population (July 1969)

Age		%
0-4	715 904	18.8
5-14	955 808	25.1
15-44	1 599 360	42.0
45+	533 120	14.0
TOTAL	3 804 192	

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/69.11

The issue of this document does not constitute formal publication. It should not be reviewed, abstracted or quoted without the agreement of the World Health Organization. Authors alone are responsible for views expressed in signed articles.

Ce document ne constitue pas une publication. Il ne doit faire l'objet d'aucun compte rendu ou résumé ni d'aucune citation sans l'autorisation de l'Organisation Mondiale de la Santé. Les opinions exprimées dans les articles signés n'engagent que leurs auteurs.

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>30</u>
Maintenance teams	<u>6</u>
Other (Specify)	_____
TOTAL	<u>36</u>

Other field staff, including recorders, drivers, etc. 24

Supervisory personnel (paramedical) 10

4.2 Number of vaccinators directly supervised by one supervisor 2

4.3 Average number of vaccinations performed daily by each team:

Regular teams 1 000 (SPOX)

Maintenance teams 250 (SPOX)

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: 2 days per mo.

Other levels: - days per mo.

By advisory staff reviewing work of -

Vaccination team: 1 days per mo.

Other levels: 1 days per mo.

5.1.2 Measures taken when vaccinator or assessor performance is unsatisfactory

Retraining

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% Checking of conditions of vaccine storage and vaccination techniques

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.) Improvement of publicity and increase in number of vaccination centres

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

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) \_\_\_\_\_

Frequency of reporting:

Immediate  Weekly  Other Monthly

Number of reports: Expected in 1968 324  
Received in 1968 324 (with 4 months' delay)  
% received 100

Negative reporting is generally practised: Yes  No

Other specialized programmes which report cases  
\_\_\_\_\_

Other persons or groups who have been requested to notify cases  
\_\_\_\_\_

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

N.A. %

Best estimate of the percentage of cases which are reported:

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

5.3.2 Case investigation and containment measures:

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

These teams are: Centralized  Decentralized

If decentralized, to what extent Headquarters of SNGE  
\_\_\_\_\_

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

Proportion of outbreaks, since October 1968, routinely investigated to determine the origin of infection N.A. %

Of the investigations noted above, the percentage of outbreaks where the origin was not ascertained N.A. %

6.0 COMMODITIES

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

Year	Col. 1	Col. 2	Col. 3	Col. 4	Reasons for Difference between Col.3 and Col.4
1967					
1968					
1969*					
1967					
1968					
1969*					

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	9	9	
Ped-o-Jets	40	40	
Refrigerators	12	11	
Motorbikes	6	0	

\* Since inception of the programme.

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

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
CAP VERT	627 000	550	1 140
CASAMANCE	642 000	28 352	23
DIOURBEL	602 000	33 547	18
FLEUVE	402 000	44 127	9
SENEGAL ORIENTAL	174 000	59 602	3
SINE SALOUM	858 000	23 945	36
THIES	503 000	6 601	76
Total	3 808 000	196 724	19

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 par mois/Number of cases by month														
	1968													1969	
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
N.A.															





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	2ème trim. 1968	3ème trim. 1968	4ème trim. 1968	J-F 1969	Total général *
		First Quarter	Second Quarter	Third Quarter	Fourth Quarter		Grand total *
CAP VERT	257 627	20 770	-	106 623	-	-	385 020
CASAMANCE	18 189	146 287	131 481	34 973	23 308	25 543	379 781
DIOURBEL	38 058	45 831	88 374	12 526	41 673	60 490	286 952
FLEUVE	9 342	48 887	33 786	66 967	36 935	13 083	209 000
SENEGAL ORIENTAL	26 685	48 965	36 806	-	-	11 643	124 099
SINE SALOUM		95 150	139 581	80 090	166 226	130 926	611 973
THIES	32 732	63 084	-	-	-	-	95 816
Total	382 633	468 974	430 028	301 179	268 142	241 685	2 092 641

\* 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
CAP VERT	0	67 000	0	67 000
CASAMANCE	0	0	36 000	36 000
DIOURBEL	0	15 000	35 000	20 000
FLEUVE	0	15 000	15 000	15 000
SENEGAL ORIENTAL	0	7 000	7 000	7 000
SINE SALOUM	0	30 000	30 000	30 000
THIES	0	22 000	22 000	22 000
Total	0	156 000	145 000	197 000

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	
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
CAP VERT	210	141	261	352	421	763	739	610	1079						
CASAMANCE	394	346	129	137	310	39	155	27	32						
DIOURBEL	134	127	211	167	185	126	60	62	16						
FLEUVE	580	331	439	443	443	385	178	322	172						
SENEGAL ORIENTAL	8	77	52	25	66	53	24	13	9						
SINE SALOUM	74	134	176	246	154	135	176	141	99						
THIES	359	425	115	44	419	241	305	73	105						
Total	1759	1581	1383	1414	1998	1742	1637	1248	1512	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

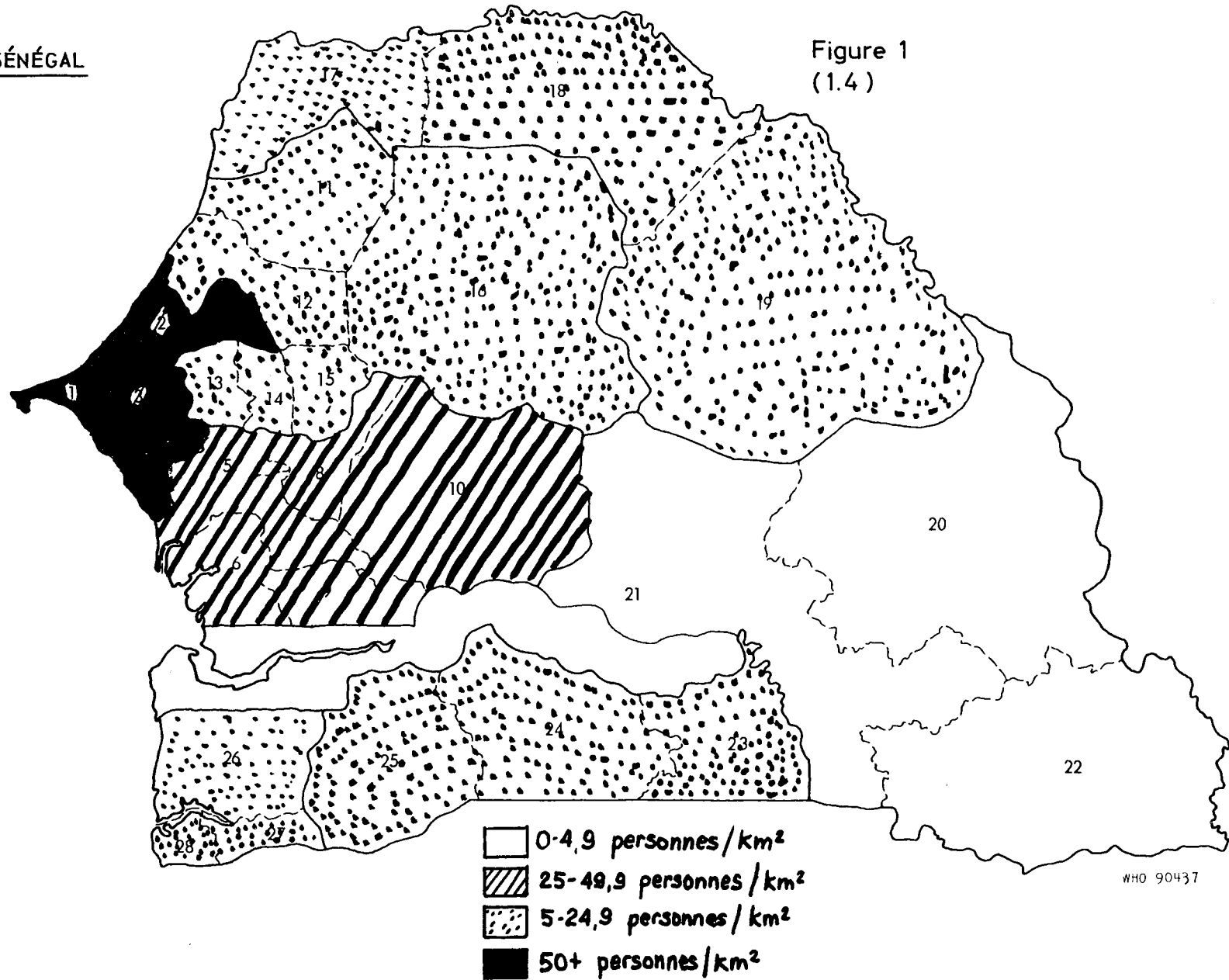
TABLEAU 7. VACCINATIONS ANTIROUGEOLEUSES EFFECTUEES, PAR DIVISION GEOGRAPHIQUE  
(Divisions indiquées par les cartes)

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

1967	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*
64690	CAP VERT	-	-	35 380	-	-	100 070
15953	CASAMANCE	45 878	39 208	9 411	8 375	9 352	128 177
5886	DIOURBEL	9 673	16 365	3 006	9 070	12 628	56 628
2613	FLEUVE	17 510	8 140	21 410	15 465	5 790	70 928
9077	SENEGAL ORIENTAL	16 036	15 153	-	-	4 224	44 490
-	SINE SALOUM	30 388	43 284	31 267	50 372	27 758	183 069
10510	THIES	19 337	-	-	-	-	29 847
108729		138 822	122 150	100 474	83 282	59 752	613 209

\* 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>DEPARTMENT</u>
CAP VERT (REGION)	1. Dakar, etc.
M'BOUR	2. Tivaouane 3. Thies 4. M'Bour 5. Fatick 6. Foundiougne 7. Kaolack 8. Gossas 9. Nioro-du-Rip 10. Kaffrine
DIORBEL	11. Louga 12. Kebemer 13. Bambey 14. Diourbel 15. M'Backe 16. Linguere
FLEUVE	17. Dagana 18. Podor 19. Matam
ORIENTAL	20. Bakel 21. Tambacounda 22. Kedougou
KOLDA	23. Velingara 24. Kolda 25. Sedhiou
BIGNONA	26. Bignona 27. Ziguinchor 28. Oussouye

Figure 9  
(2.6)

