



Durham E-Theses

A geographical study of the pattern, processes and consequences of urban growth in Sierra Leone in the twentieth century

Harvey, Milton

How to cite:

Harvey, Milton (1966) *A geographical study of the pattern, processes and consequences of urban growth in Sierra Leone in the twentieth century*, Durham theses, Durham University. Available at Durham E-Theses Online: <http://etheses.dur.ac.uk/7985/>

Use policy

The full-text may be used and/or reproduced, and given to third parties in any format or medium, without prior permission or charge, for personal research or study, educational, or not-for-profit purposes provided that:

- a full bibliographic reference is made to the original source
- a link is made to the metadata record in Durham E-Theses
- the full-text is not changed in any way

The full-text must not be sold in any format or medium without the formal permission of the copyright holders.

Please consult the [full Durham E-Theses policy](#) for further details.

A Geographical Study
of the
Pattern, Processes and Consequences
of
URBAN GROWTH IN SIERRA LEONE
in the twentieth century

Milton E. E. Harvey, B.A.

Volume II: Maps and Illustrations, Appendices,
and Selected Bibliography

The copyright of this thesis rests with the author
No quotation from it should be published without
his prior written consent and information derived
from it should be acknowledged

May 1966

MAPS AND ILLUSTRATIONS

<u>Figure</u>		<u>Page</u>
1.1	Classes of Central Places in Sierra Leone, 1963	418
1.2	Urban Functional Groups, 1963	419
1.3	Dispersion Graphs of Occupational Growths in Sierra Leone Towns - 1963	420
1.4	Functional Classification of Sierra Leone Towns, 1963	421
2.1	Town Size, 1927 (estimated)	422
2.2	Town Size, 1963	423
2.3	Mean Nearest-Neighbour Distance, 1927	424
2.4	Mean Nearest-Neighbour Distance, 1963	425
2.5	Sierra Leone . Rank-Size Relationships (1927 & 1963)	426
3.1	Migration to Kenema in Search of Work - 1962	427
3.2	Urban Sex Ratios, 1963	428
3.3	Extreme Urban Sex Ratios	429
3.4	Urban Age Structures (Centres with over 2,000 people), 1963	430
4.1	Town Sites	431
4.2	Example of a River Site Town, Sumbuya	432
4.3	Types of Town Sites on the River Rokel	433
4.4	Relationship of Towns to Topography	434
4.5	Relationship of Towns to Zones of Activity	435
4.6	Examples of Mountain Sites in Sierra Leone	436

MAPS AND ILLUSTRATIONS

<u>Figure</u>		<u>Page</u>
4.7	Types of Coastal Town Sites in Sierra Leone	437
4.8	Types of Estuarine Sites in Sierra Leone	438
5.1	Bonthe : Distribution of Streets and Lots	439
5.2	Town Forms, Sierra Leone	440
6.1	Examples of Urban Plans in Sierra Leone (Bo, Sefadu-Koidu, Kailahun, Kenema, Pujehun, Kabala, Kamakwie)	441
6.2	Examples of Urban Plans in Sierra Leone (Lunsar, Makeni, Waterloo, Taiama, Mano, Shenge, Kambia, Rokupr, Moyamba)	442
6.3	Examples of Urban Plans in Sierra Leone (Pepel, Yele, Magburaka, Mange, Port Loko, Yonibana, Bonthe, Matru, Sembehun)	443
8.1	Urban Land Use (Yonibana, Bonthe, Makeni, Bo)	444
8.2	Urban Land Use (Matru, Port Loko, Magburaka, Lunsar)	445
8.3	Urban Land Use (Kambia, Kabala, Koidu-Sefadu, Kenema)	446
8.4	Factors Affecting CBD shapes, Sierra Leone	447
8.5	Lunsar, CBD Land Use	448
8.6	Port Loko, CBD Land Use	449
8.7	Yonibana, Commerce	450
8.8	Bonthe, Shopping Centre, 1963	451
8.9	Kabala, CBD Land Use	452

MAPS AND ILLUSTRATIONS

<u>Figure</u>		<u>Page</u>
8.10	Koidu, CBD Land Use	453
8.11	Makeni, CBD Land Use	454
8.12	Some Residential Shapes, Sierra Leone	455
8.13	Types of Residential Areas, Magburaka	456
8.14	Kenema, Distribution of Buildings	457
9. 1	Distribution of Round Houses in Towns, 1939	458
9. 2	Bo, Roof Types	459
9. 3	A Traditional Fula Hut showing the Different Parts	460
9. 4	Import of Building Materials, Sierra Leone (1920-1963)	461
9. 5	Plans of Urban Circular Houses, Sierra Leone (from Cadastral sheets)	462
9. 6	Rural House Types, Sierra Leone	463
9. 7	Plans of Urban Rectangular Houses	464
9. 8	Generalised Distribution of House Types in Freetown	465
10. 1	Location of Yonibana	466
10. 2	Growth of Yonibana	467
10. 3	Taxpayers in Yoni Chiefdom	468
10. 4	Yonibana • Location of Some Services (Schools, Church, Mosque, Native Court, Barri, Health Centre)	469
10. 5	Yonibana • House Types	470
10. 6	Yonibana • Roof Types	471
10. 7	Yonibana Changes in House Types (1939 and 1964)	472

MAPS AND ILLUSTRATIONS

<u>Figure</u>		<u>Page</u>
11.1	Growth of Kabala	473
11.2	Distribution of Houses in Kabala	474
11.3	Distribution of Fulas in Kabala	475
12.1	The Growth of Bonthe	476
12.2	Economic Activities Centred on Bonthe	477
12.3	Bonthe : Shopping centre, 1953	478
12.4	The Changing Positions of the Most Important Bar	479
12.5	The Distribution of Storey Houses in Bonthe	480
12.6	The Relationship Between Houses, Toilets and Wells in Bonthe (from Cadastral Sheets)	481
12.7	The Location of the Hospital in Bonthe	482
12.8	The Distribution of Schools and Churches in Bonthe	483
13.1	Site of Koidu	484
13.2	Growth of Koidu-Sefadu	485
13.3	Sections of Koidu	486
14.1	Growth of Makeni	487
14.2	Makeni Number of Taxpayers by Wards, 1958-1962	488
14.3	A Section of Makeni Showing Walls and Roof Types	489
15.1	Crimes Reported at Police Stations, 1963	490
16.1	Growth Curves of Some Towns in Sierra Leone	491
16.2	Rates of Urban Growth, 1927-1963	492

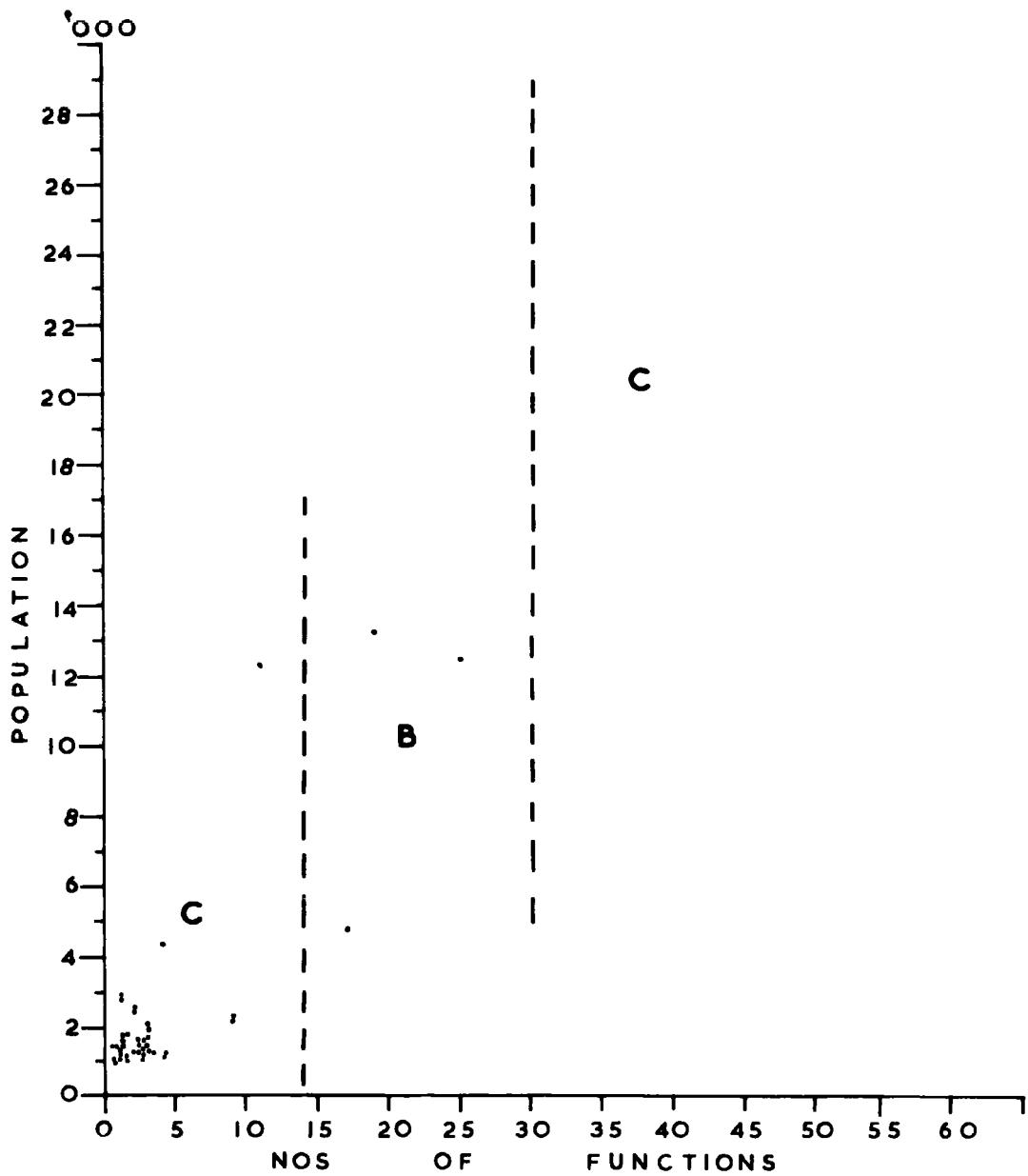


Fig. 1.1. Classes of Central Places in Sierra Leone, 1963.

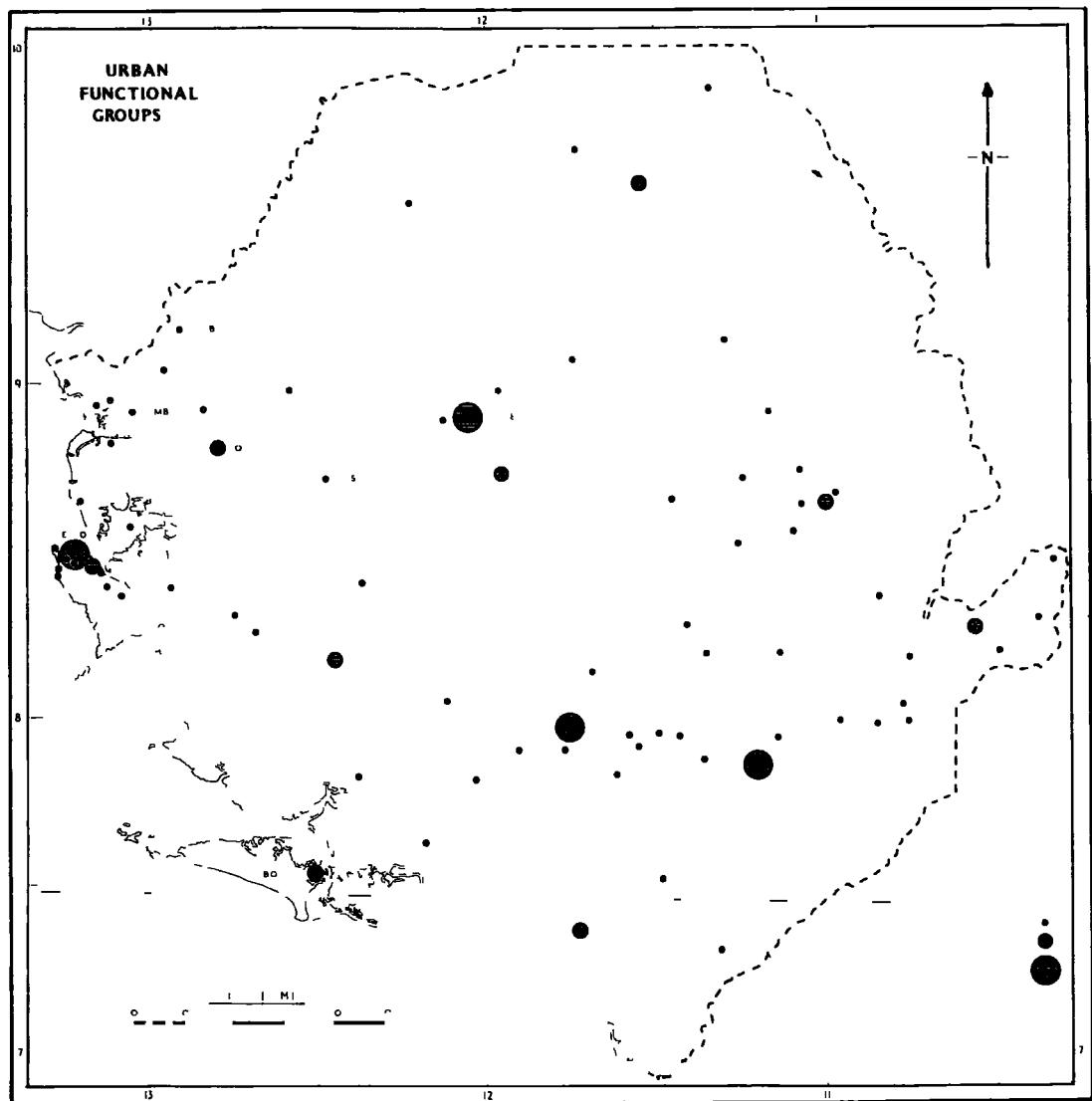


Fig. 1.2. Urban Functional Groups, 1963.

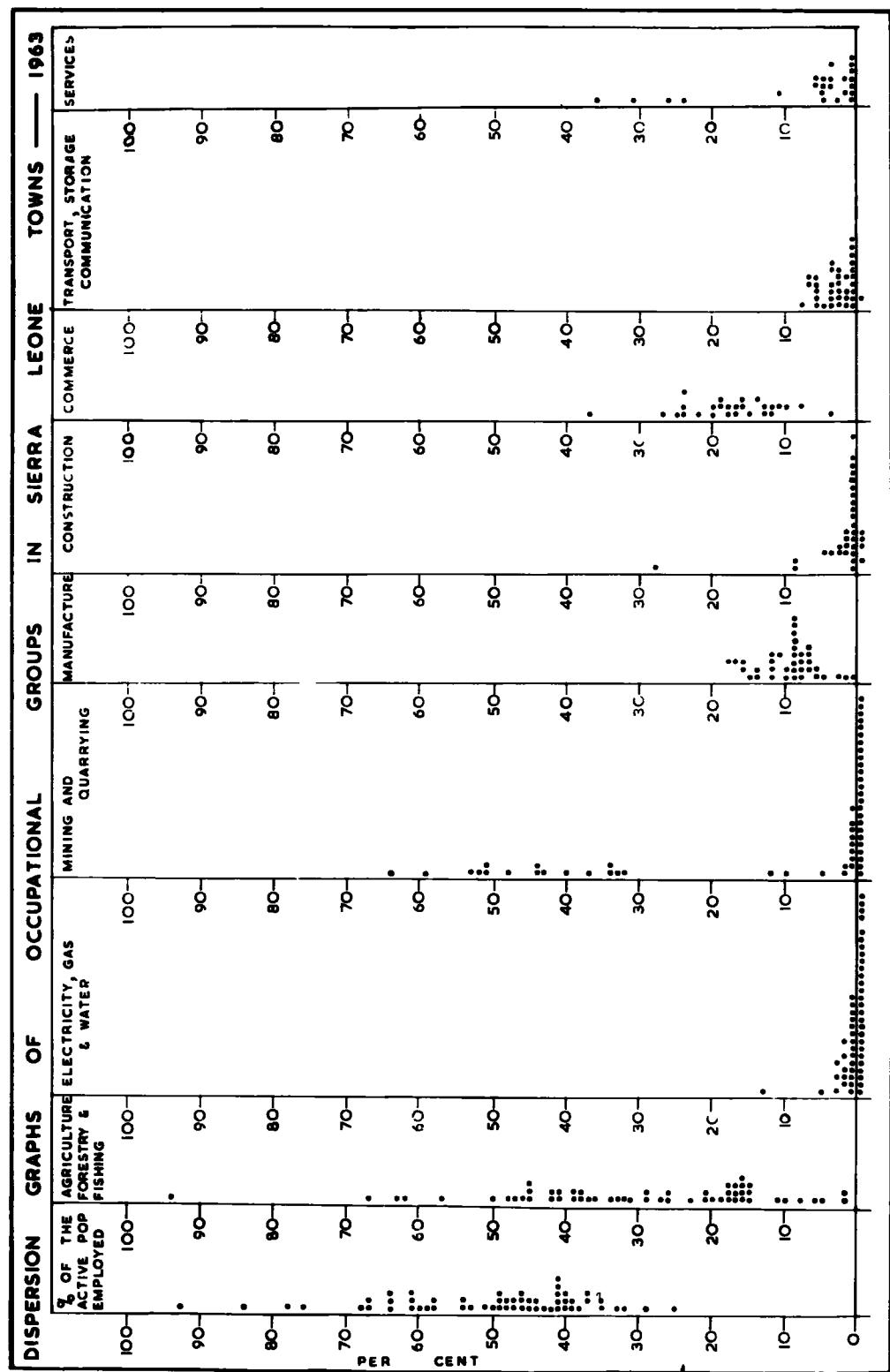


Fig. 1.3. Dispersion Graphs of Occupational Groups in Sierra Leone
Towns — 1963.

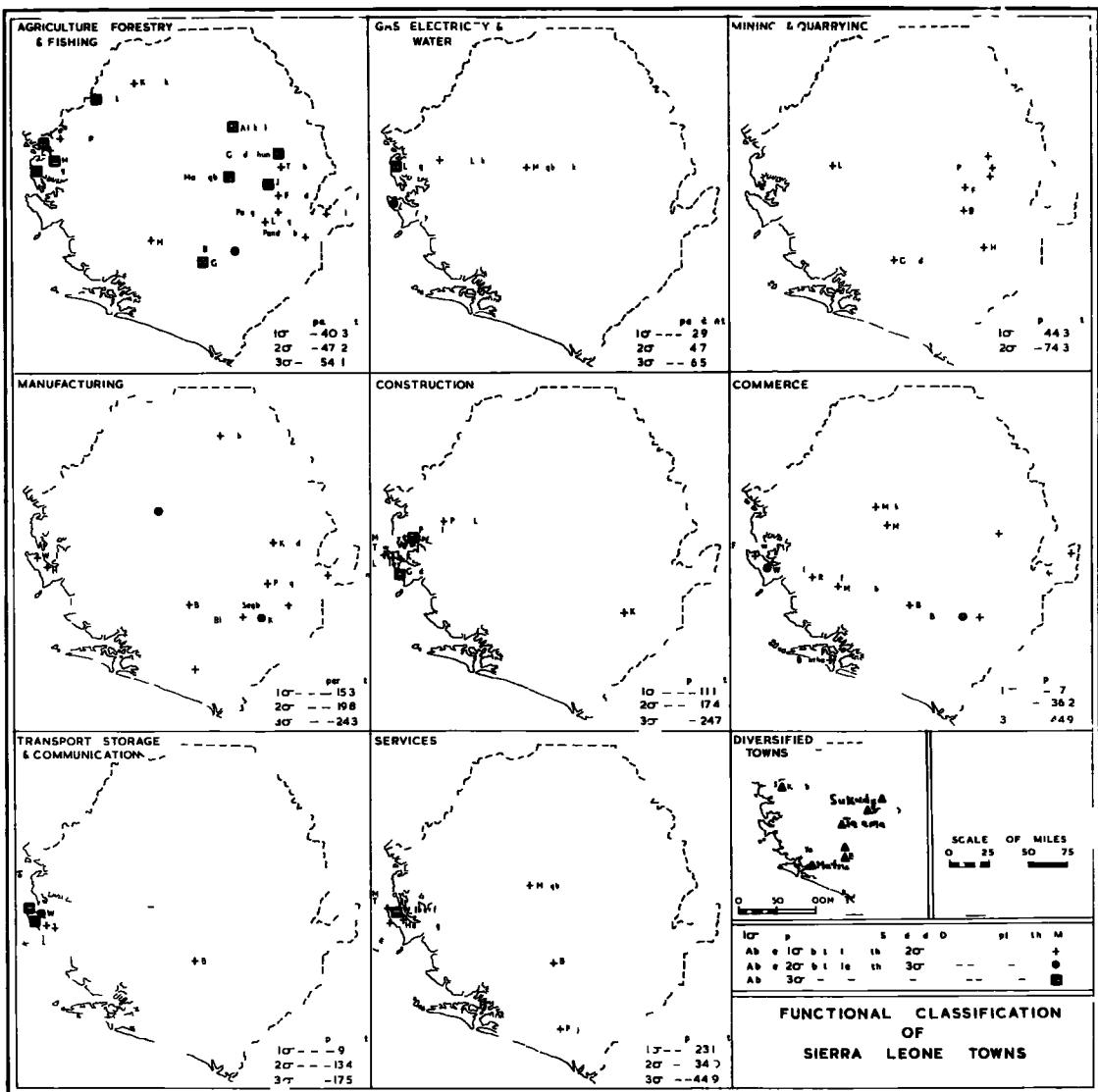


Fig. 1.4. Functional Classification of Sierra Leone Towns.

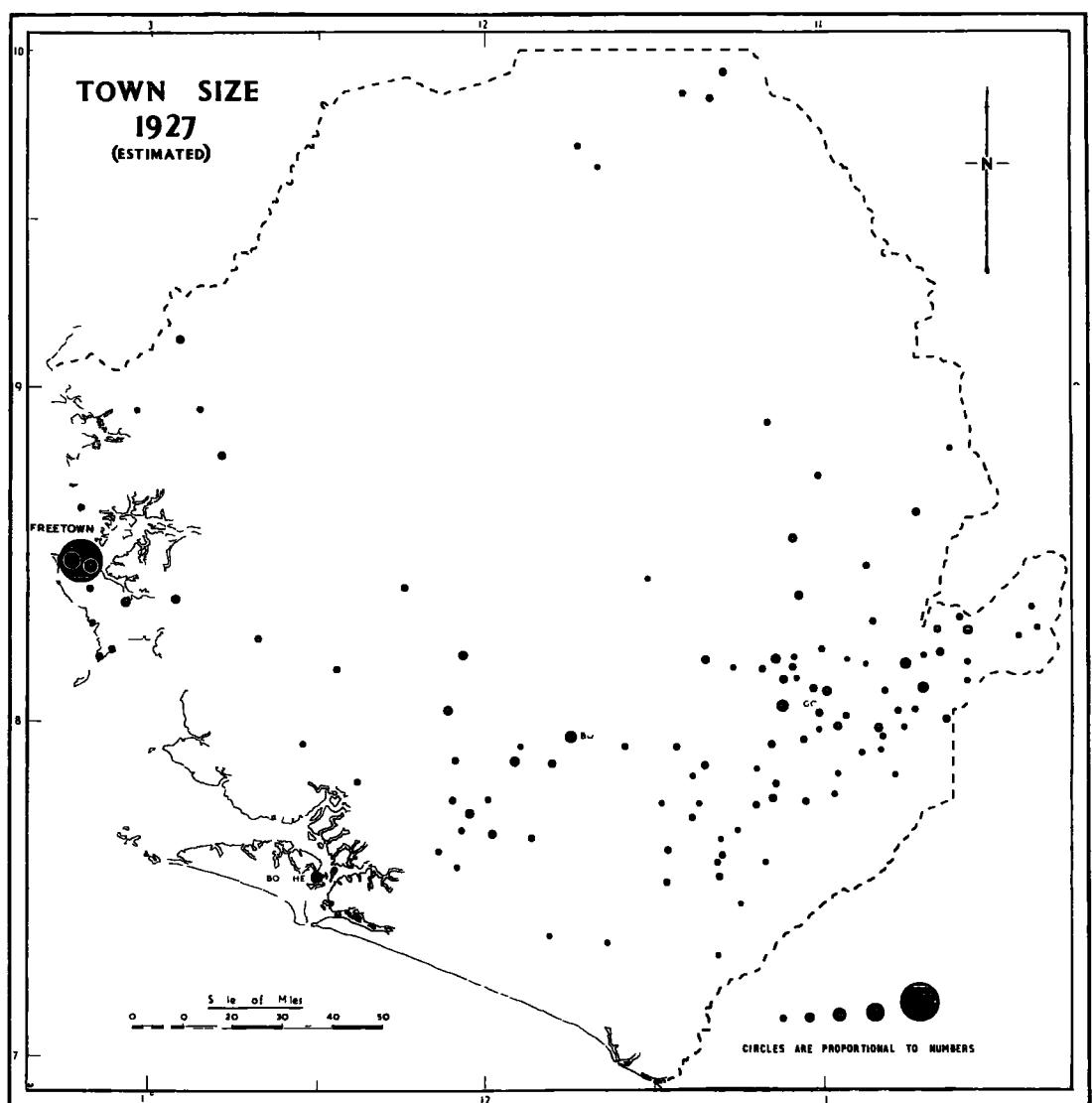


Fig. 2.1. Town Size, 1927 (estimated).

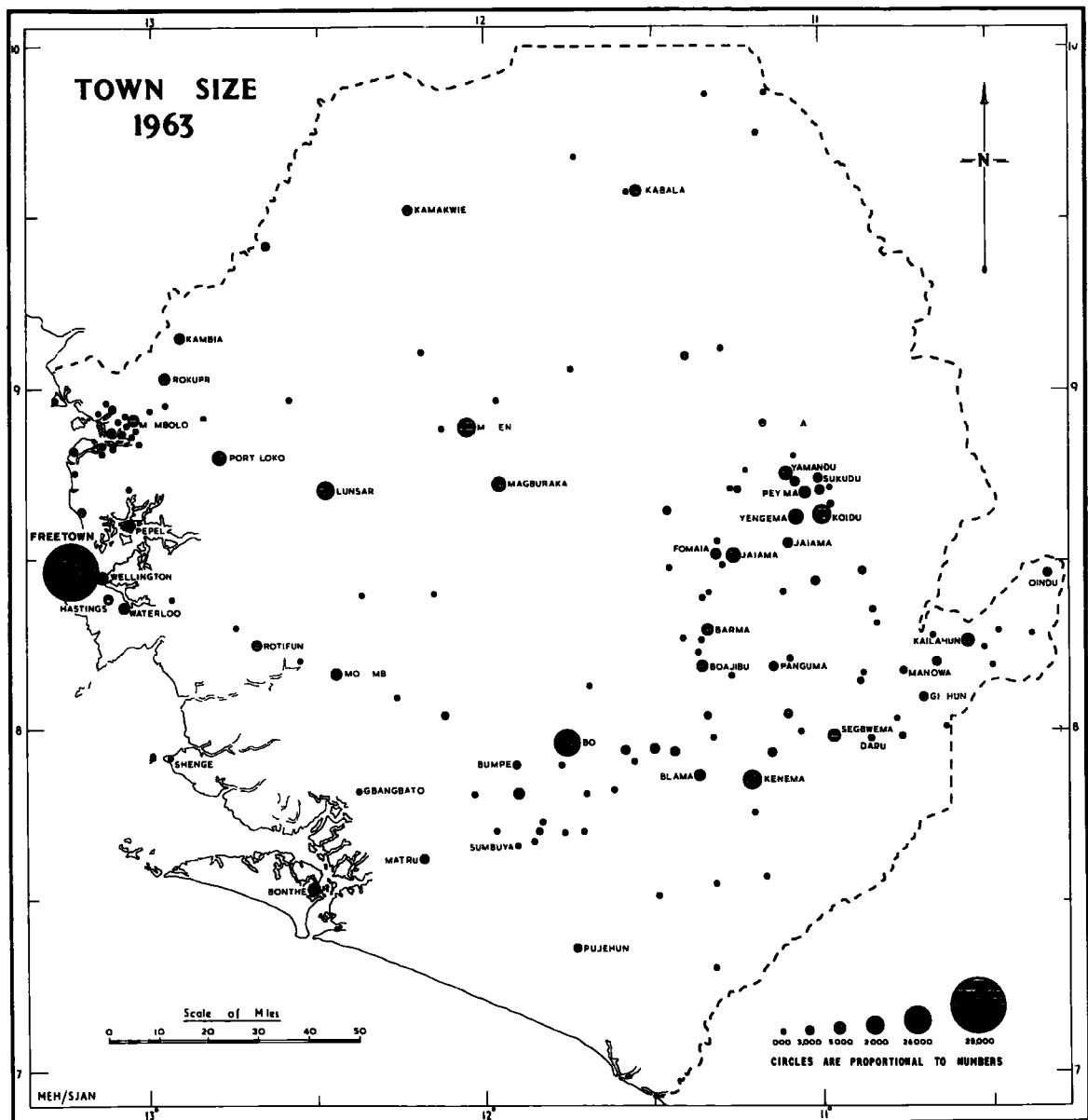


Fig. 2.2. Town Size, 1963.

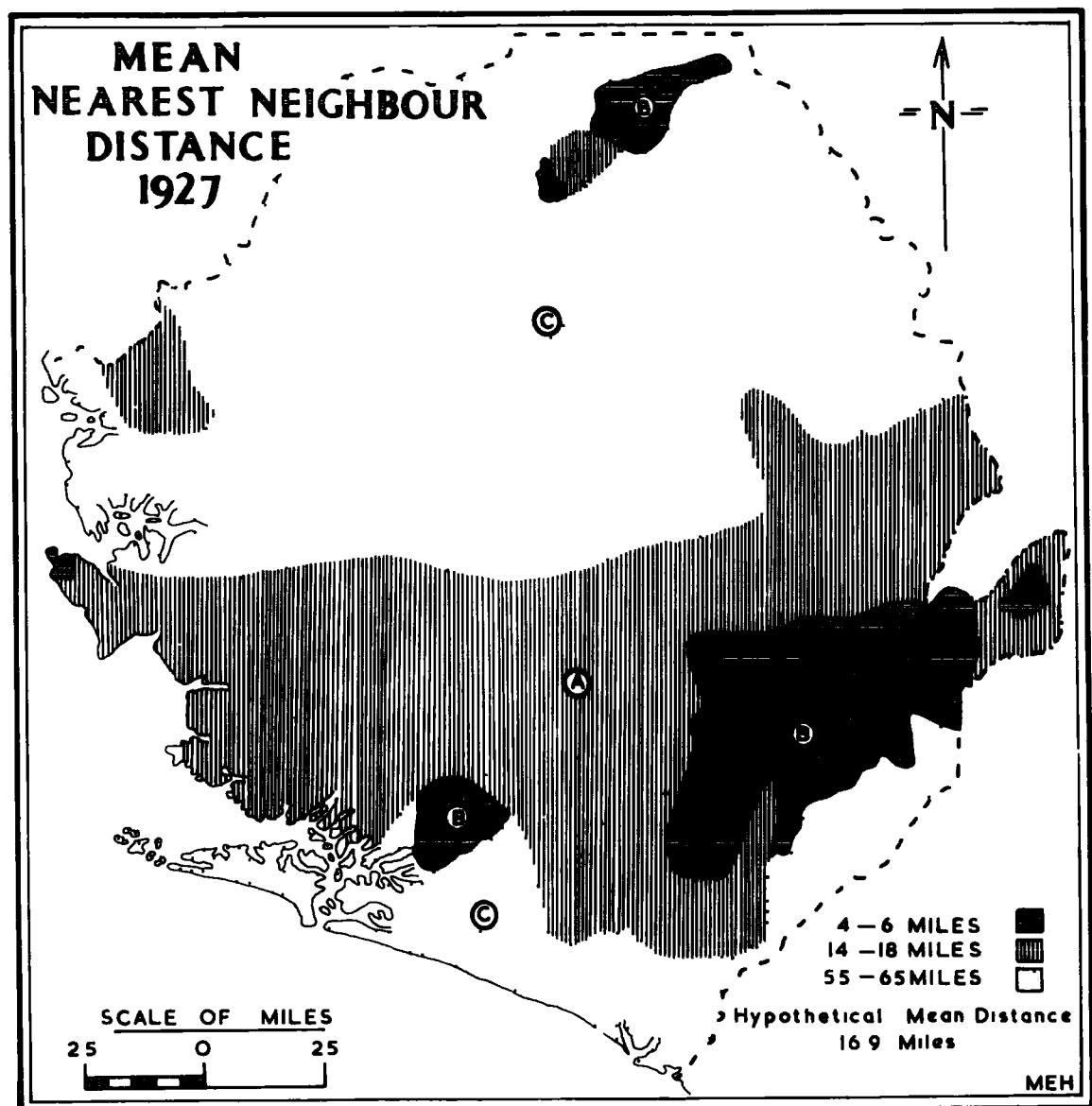


Fig. 2.3. Mean Nearest Neighbour Distance, 1927.

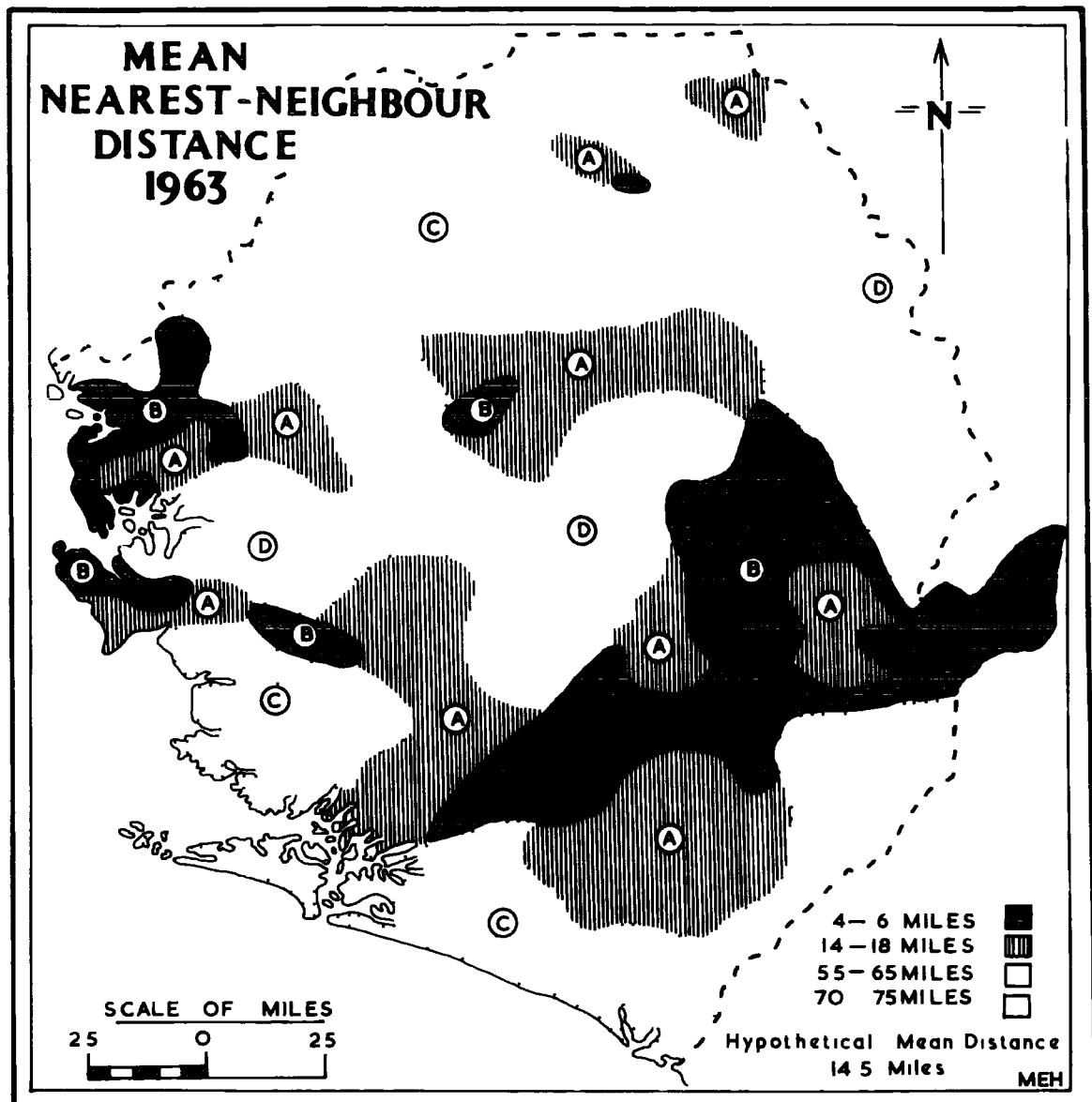


Fig. 2.4. Mean Nearest-Neighbour Distance, 1963.

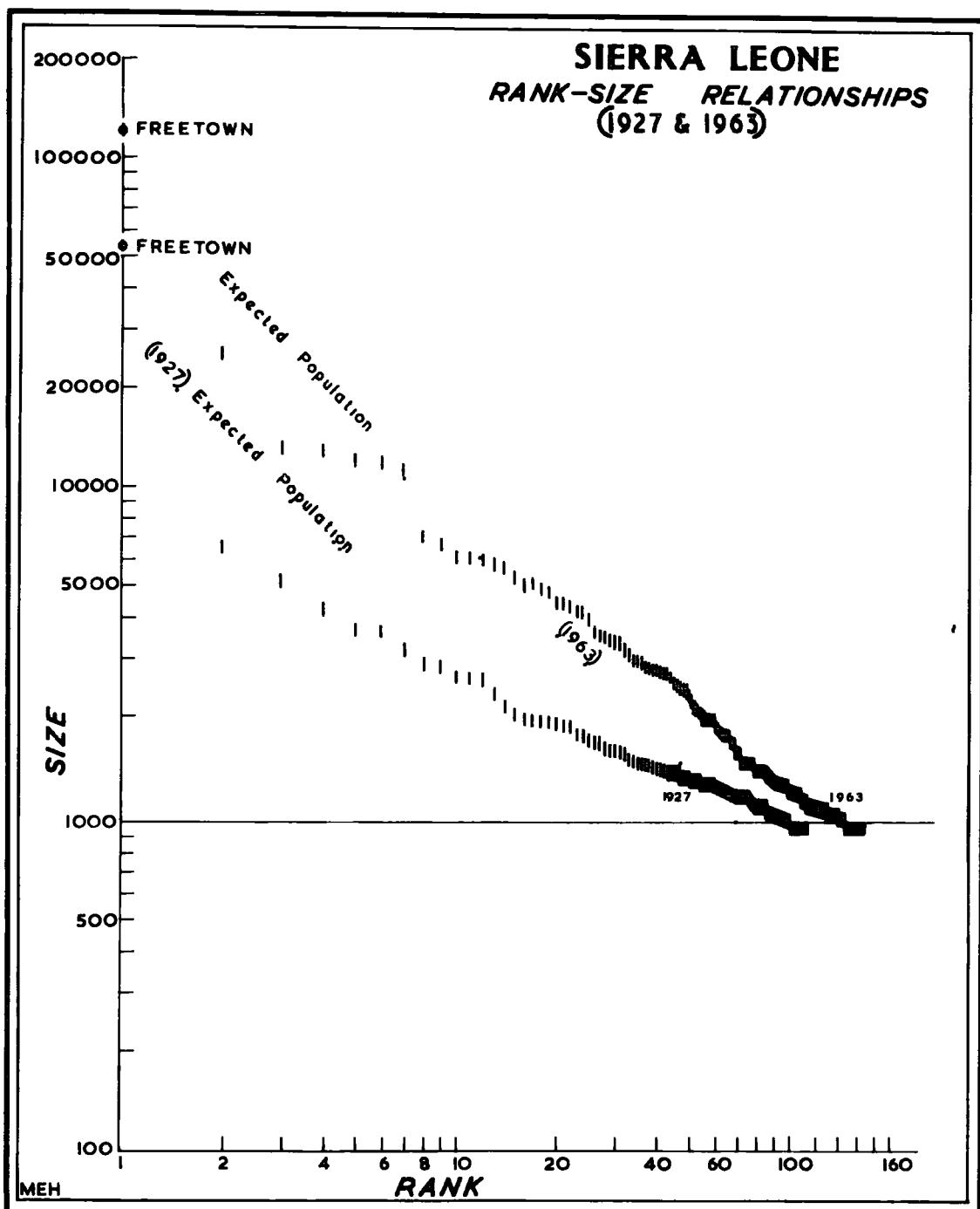


Fig. 2.5. Sierra Leone: Rank-Size Relationships (1927 & 1963),

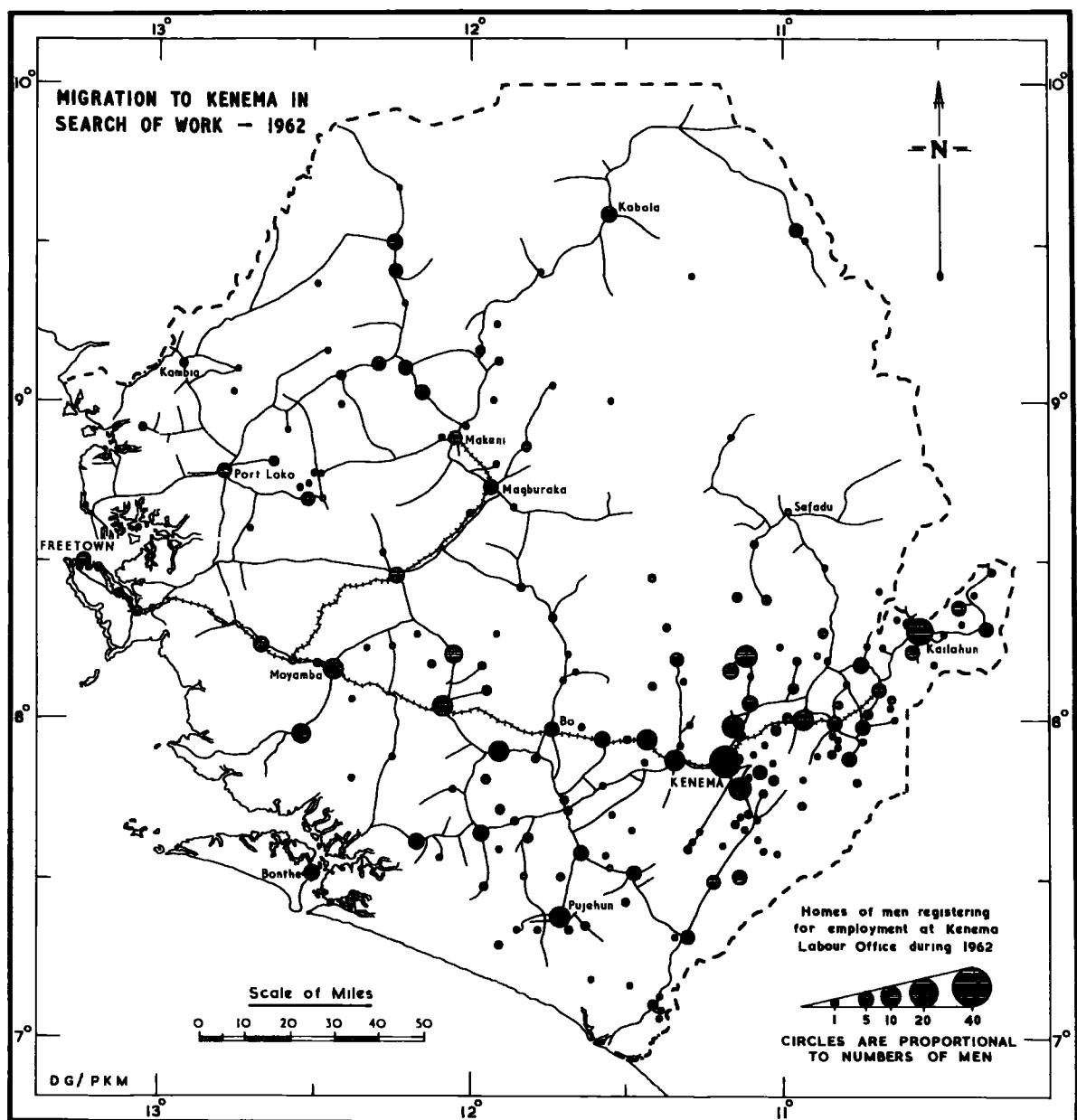


Fig. 3.1. Migrations to Kenema in Search of Work - 1962

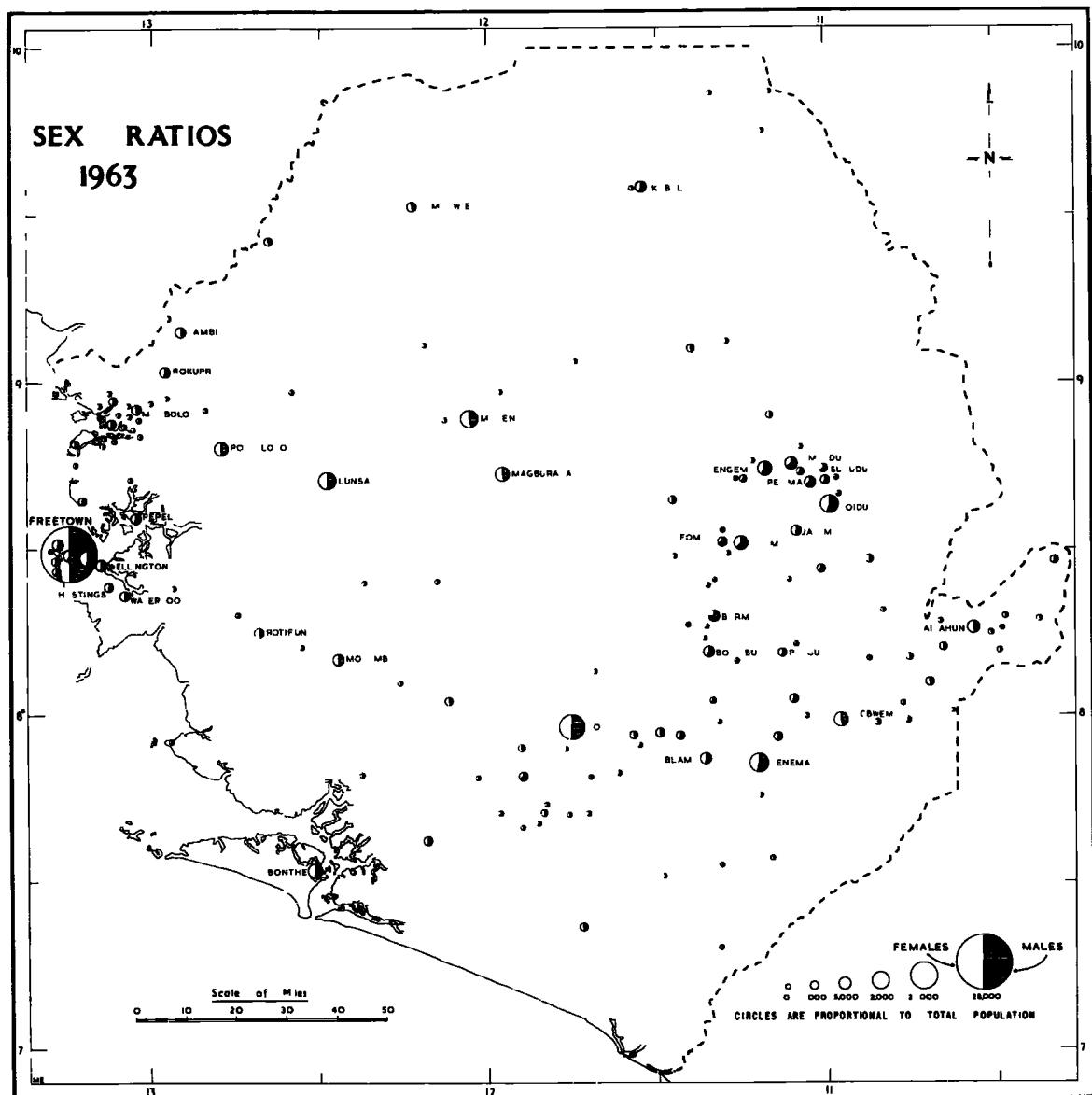


Fig. 3.2. Urban Sex Ratios, 1963.

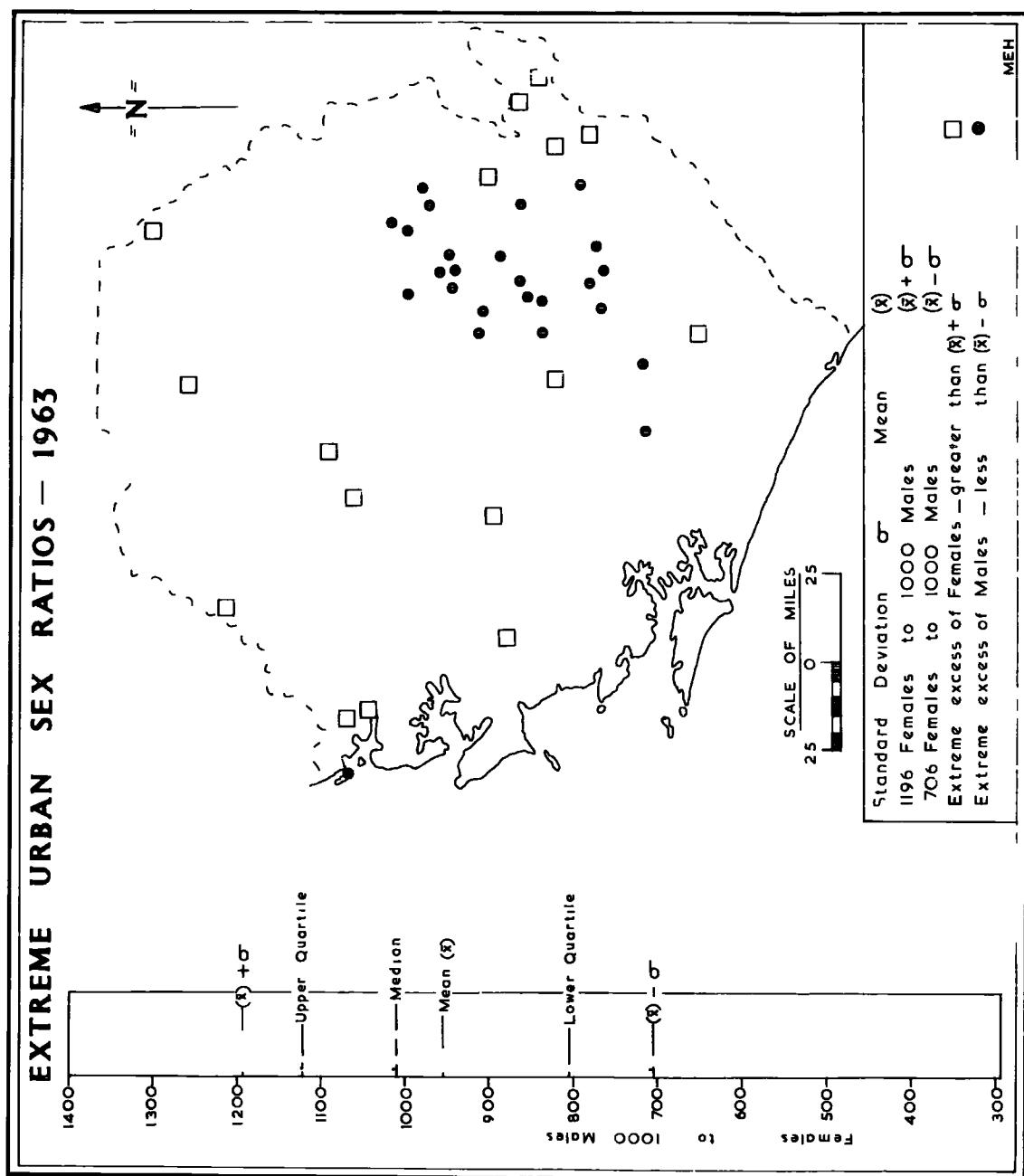


Fig. 3.3. Extreme Urban Sex Ratios, 1963.

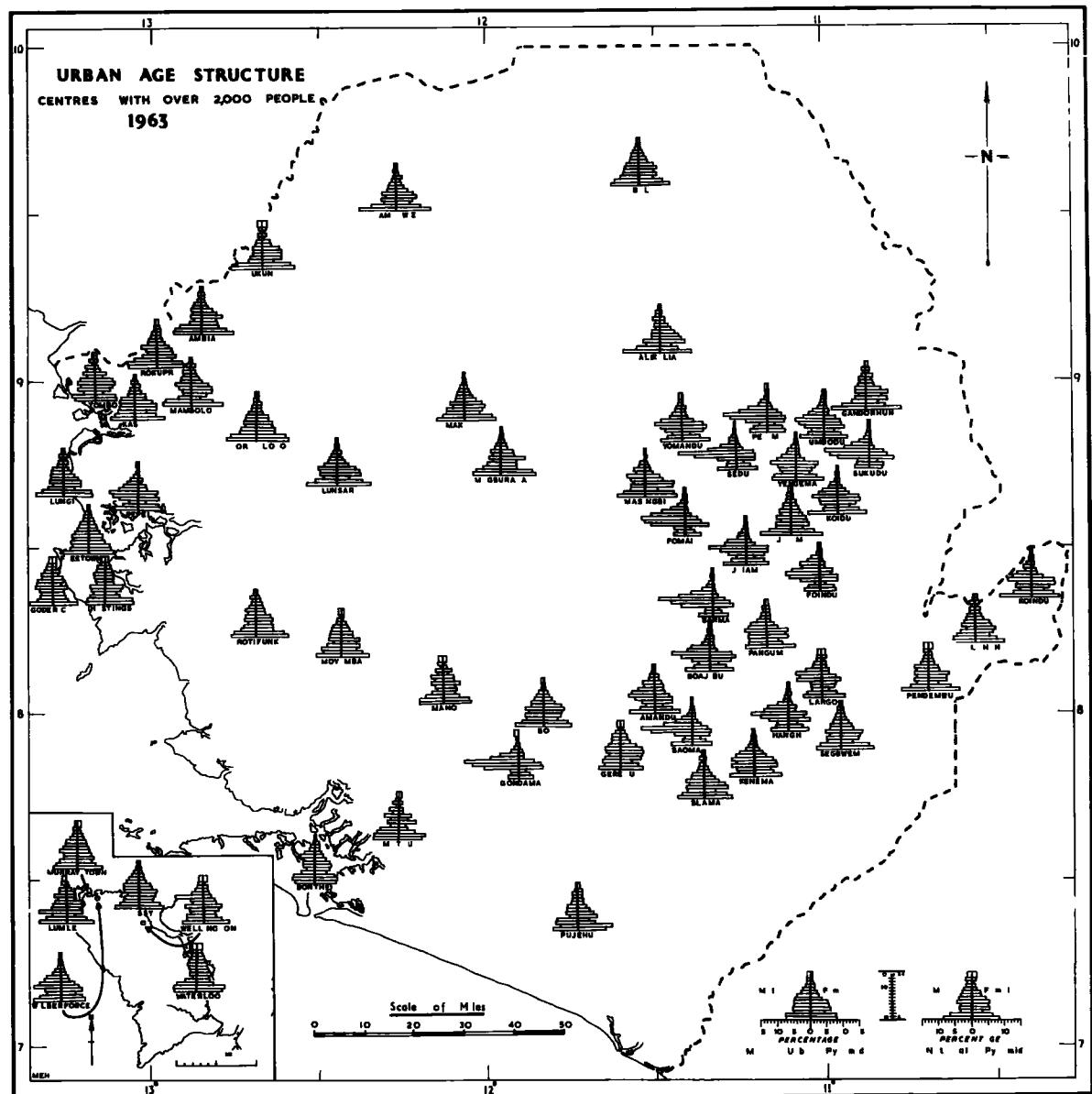


Fig. 3.4. Urban Age Structure (centre with over 2,000 people), 1963.

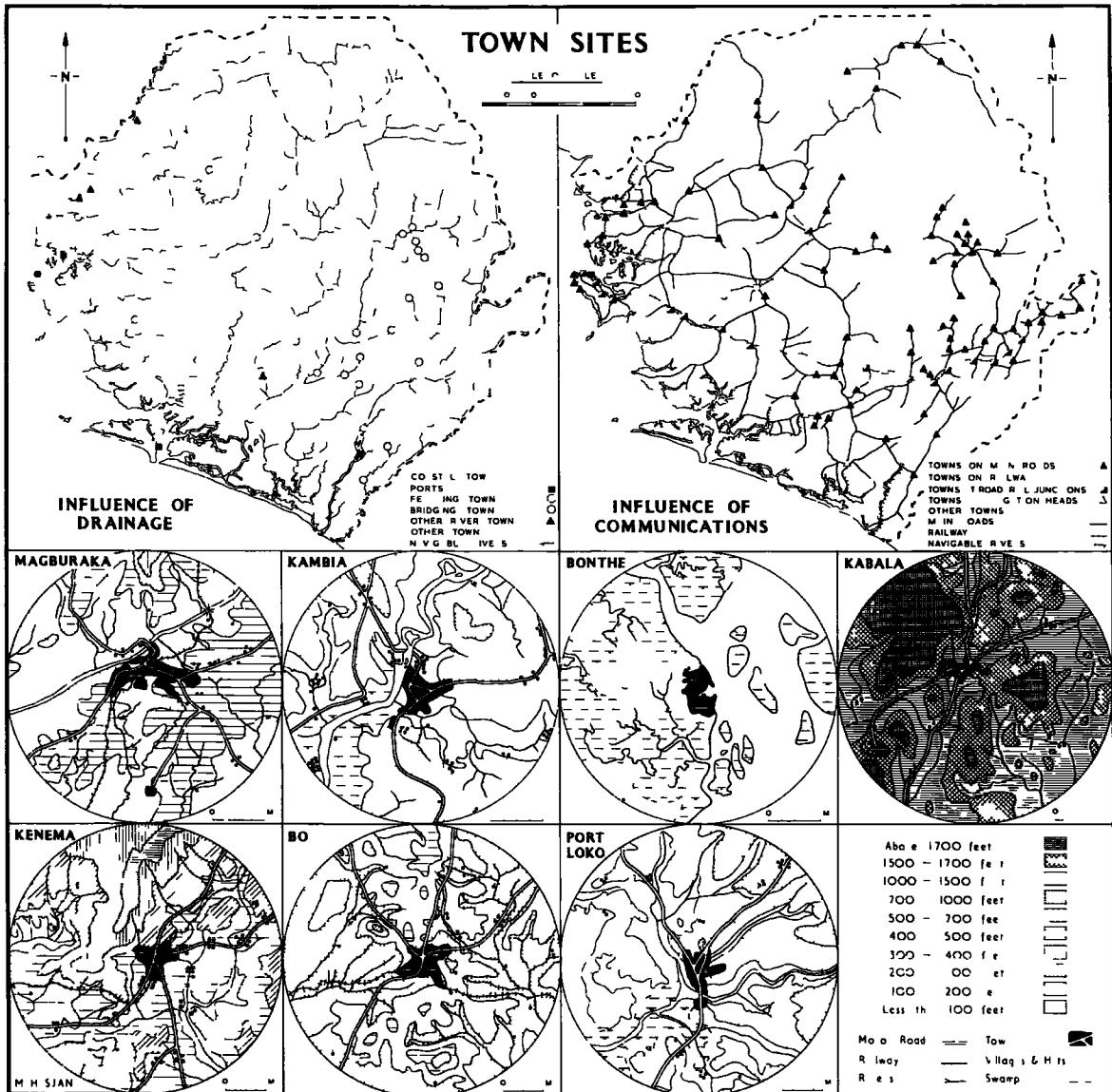


Fig. 4.1. Town Sites.

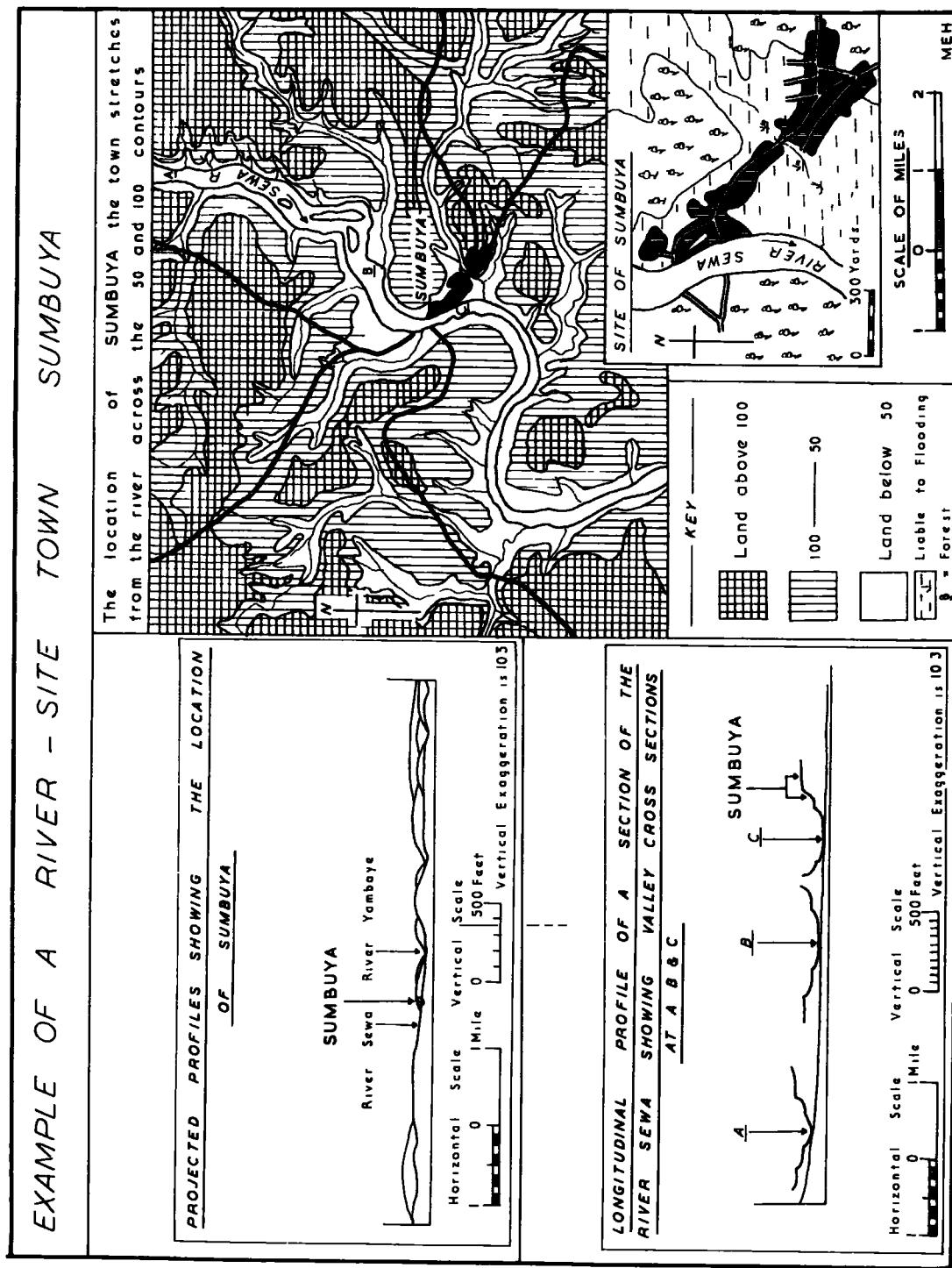


Fig. 4-2. Examples of a River Site Town, Sumbuya.

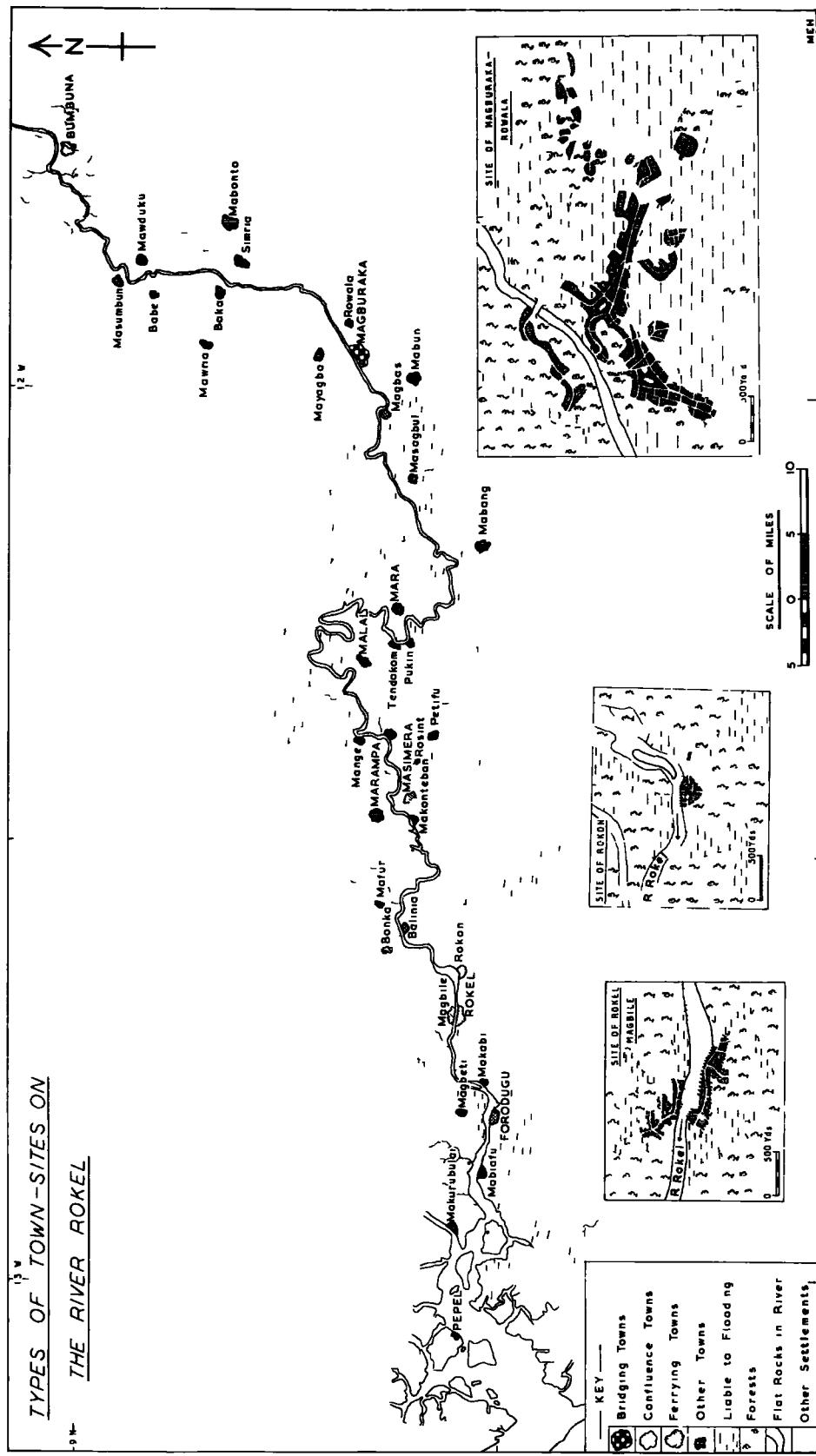


Fig. 403. Types of Town Sites on the River Rokel.

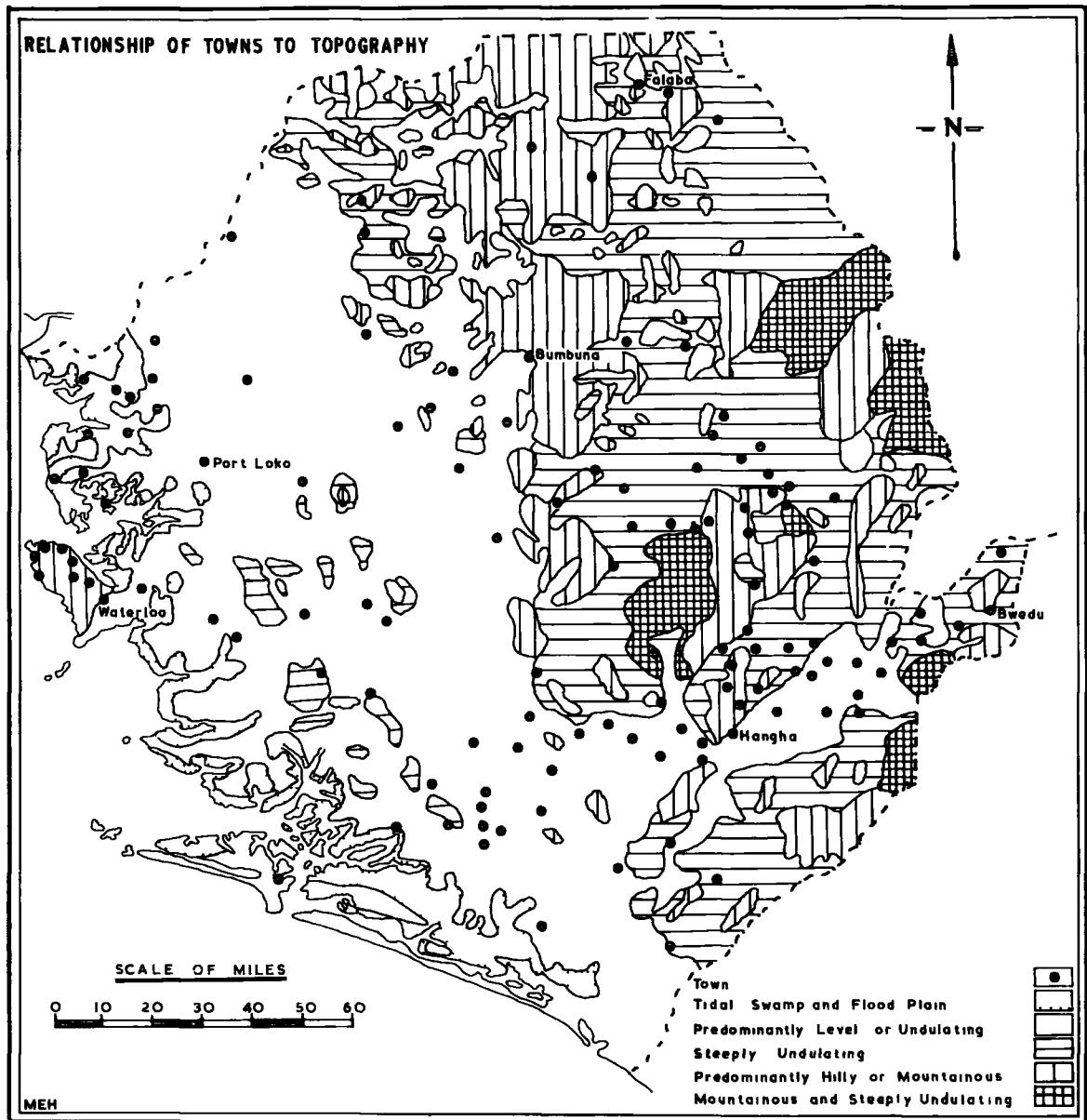


Fig. 4.4. Relationship of Towns to Topography.

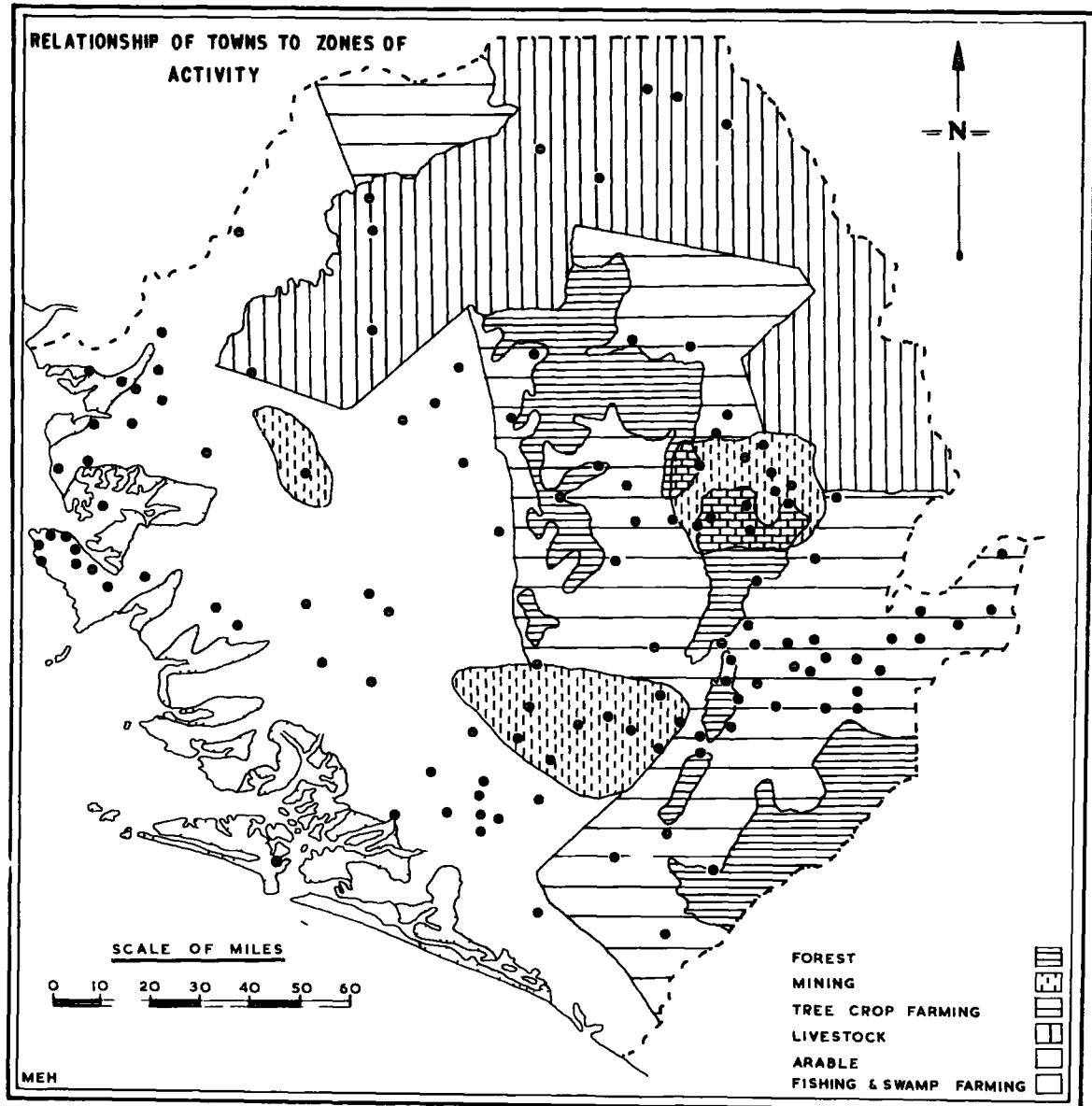


Fig. 4.5. Relationship of Towns to Zones of Activity.

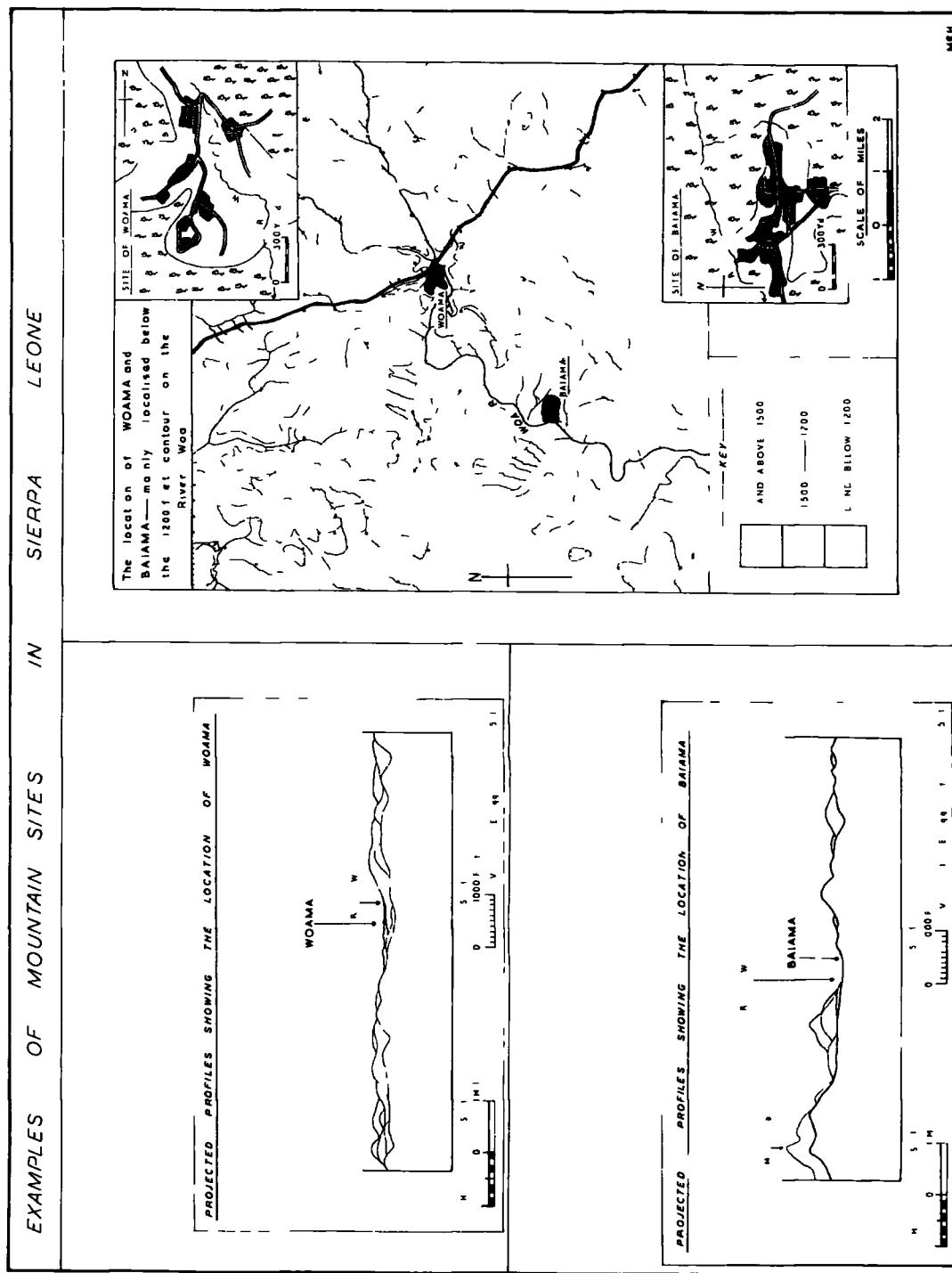


Fig. 4.6. Examples of Mountain Sites in Sierra Leone.

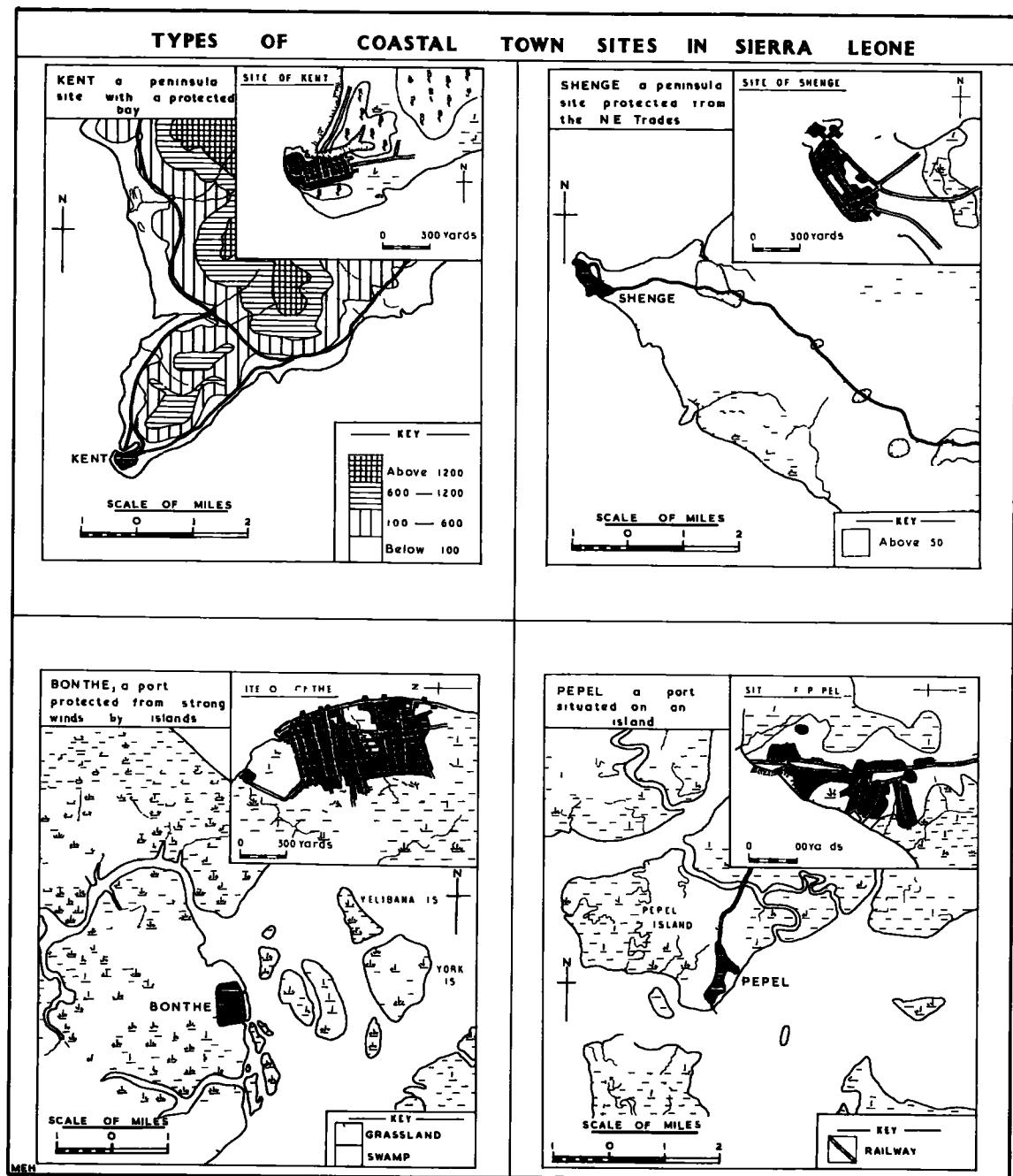


Fig. 4.7. Types of Coastal Town Sites in Sierra Leone.

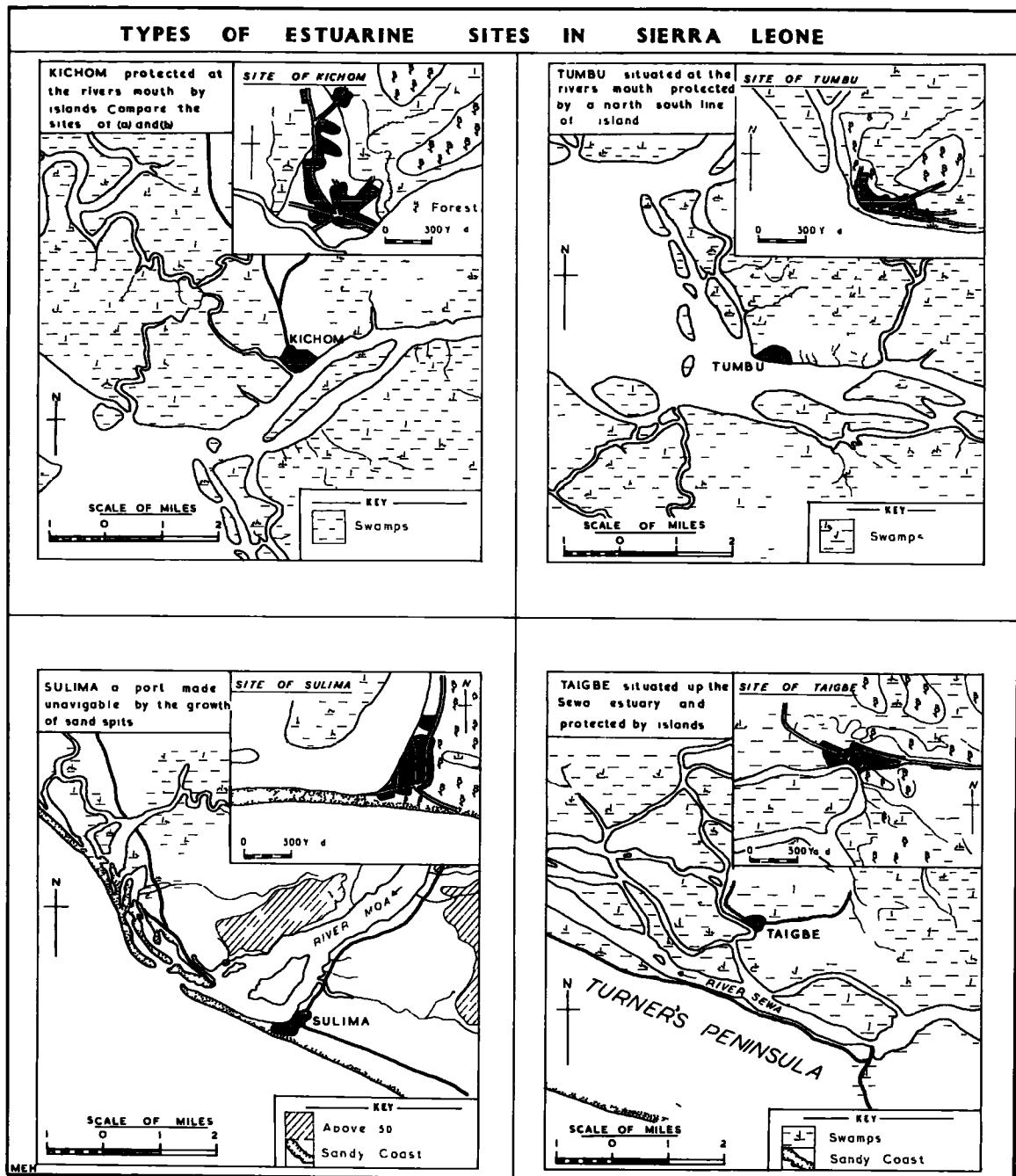


Fig. 4.8. Types of Estuarine Sites in Sierra Leone.

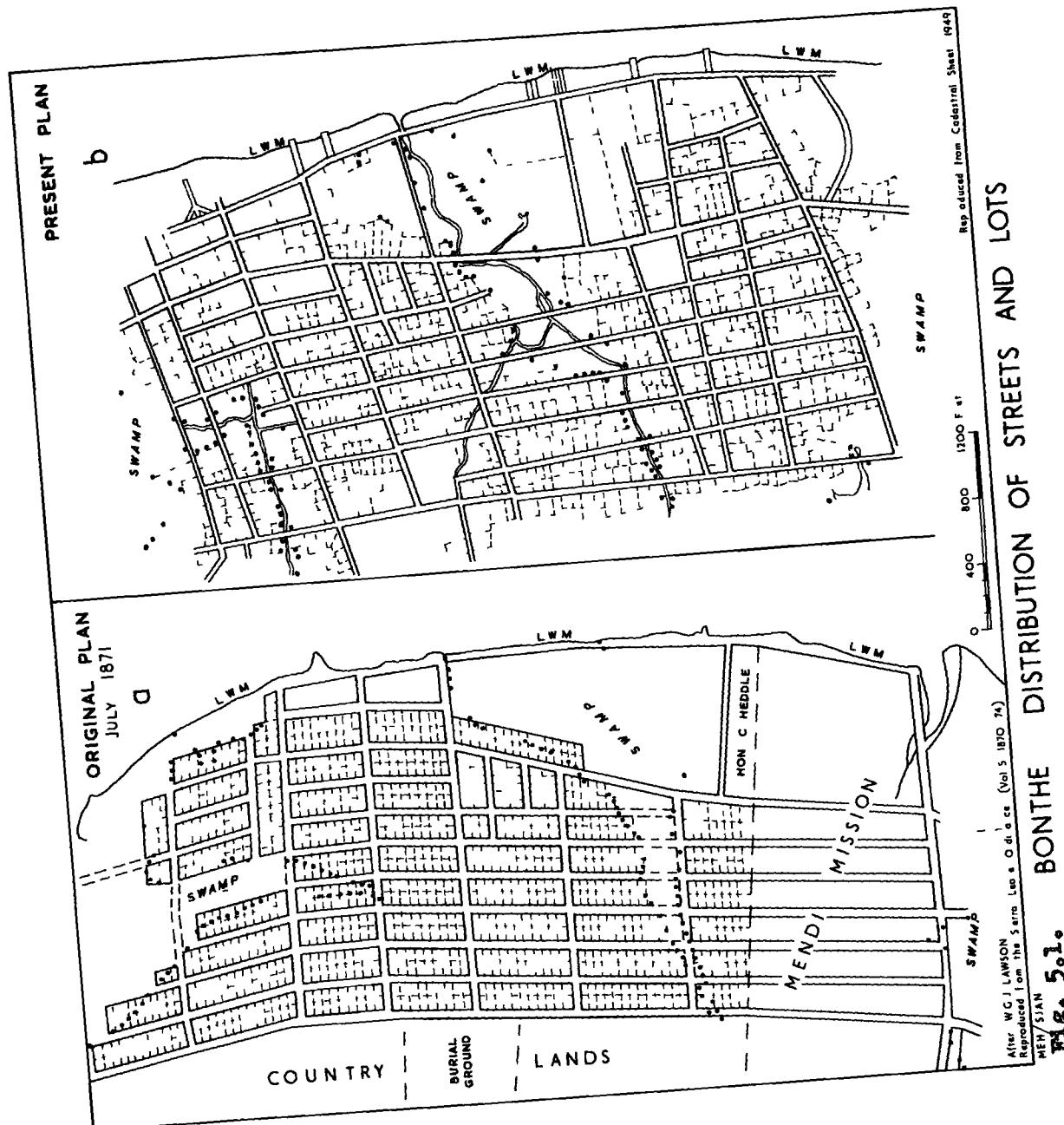


FIG. 501. BONTHE DISTRIBUTION OF STREETS AND LOTS

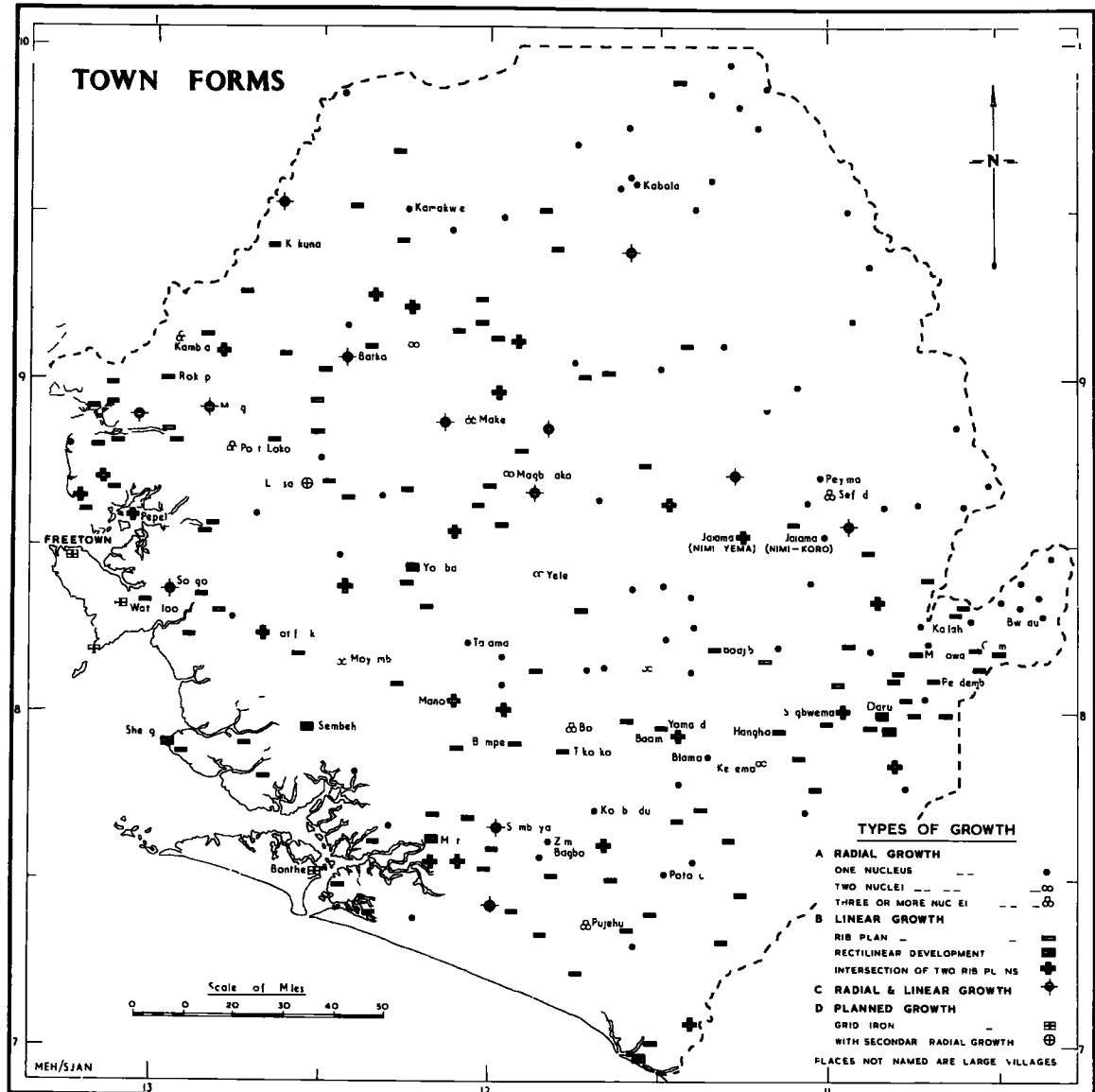


Fig. 5.2. Town Forms, Sierra Leone.

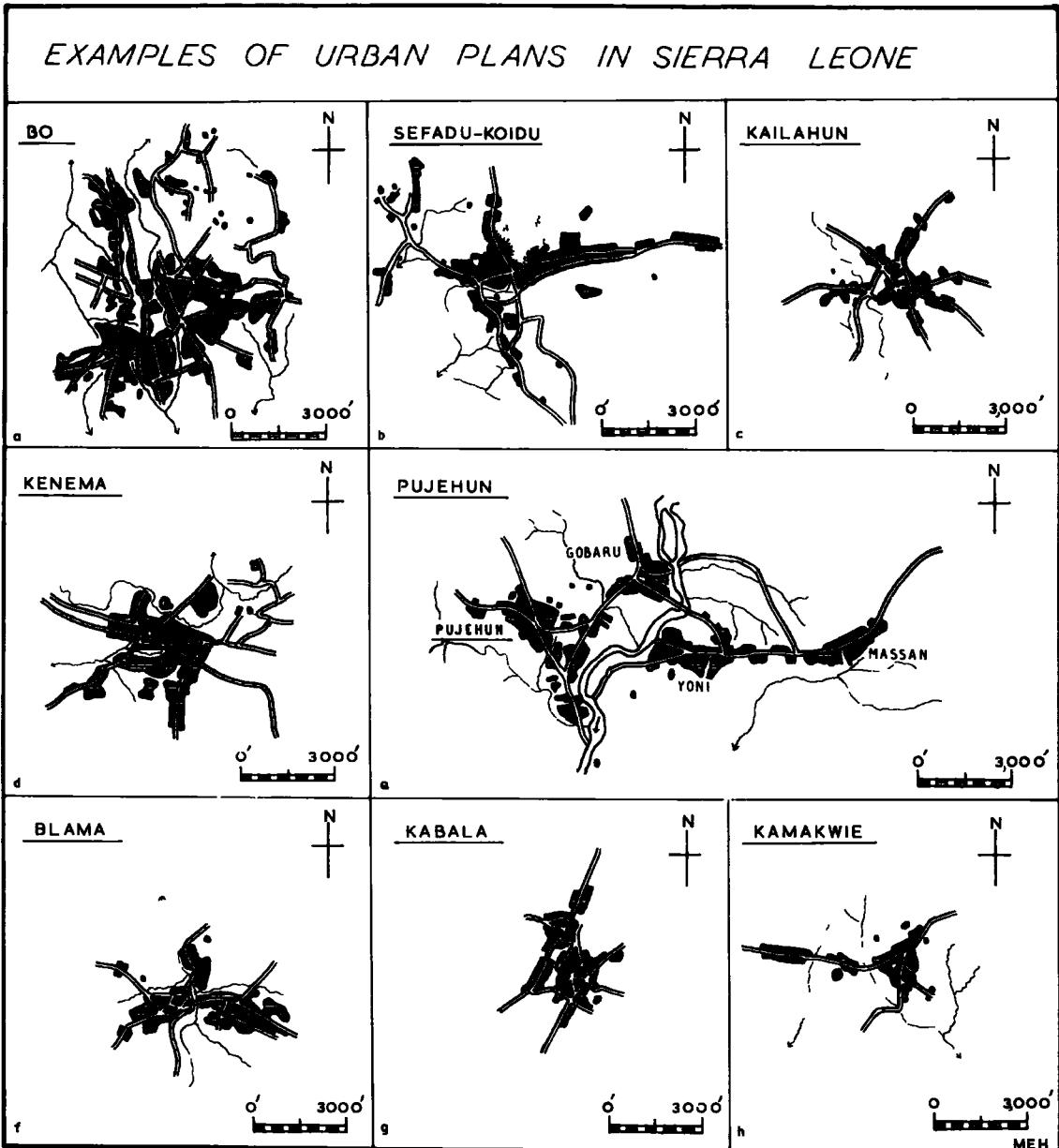


Fig. 6.1. Examples of Urban Plans in Sierra Leone (Bo, Sefadu-Koidu, Kailahun, Kenema, Pujehun, Blama, Kabala, Kamakwie).

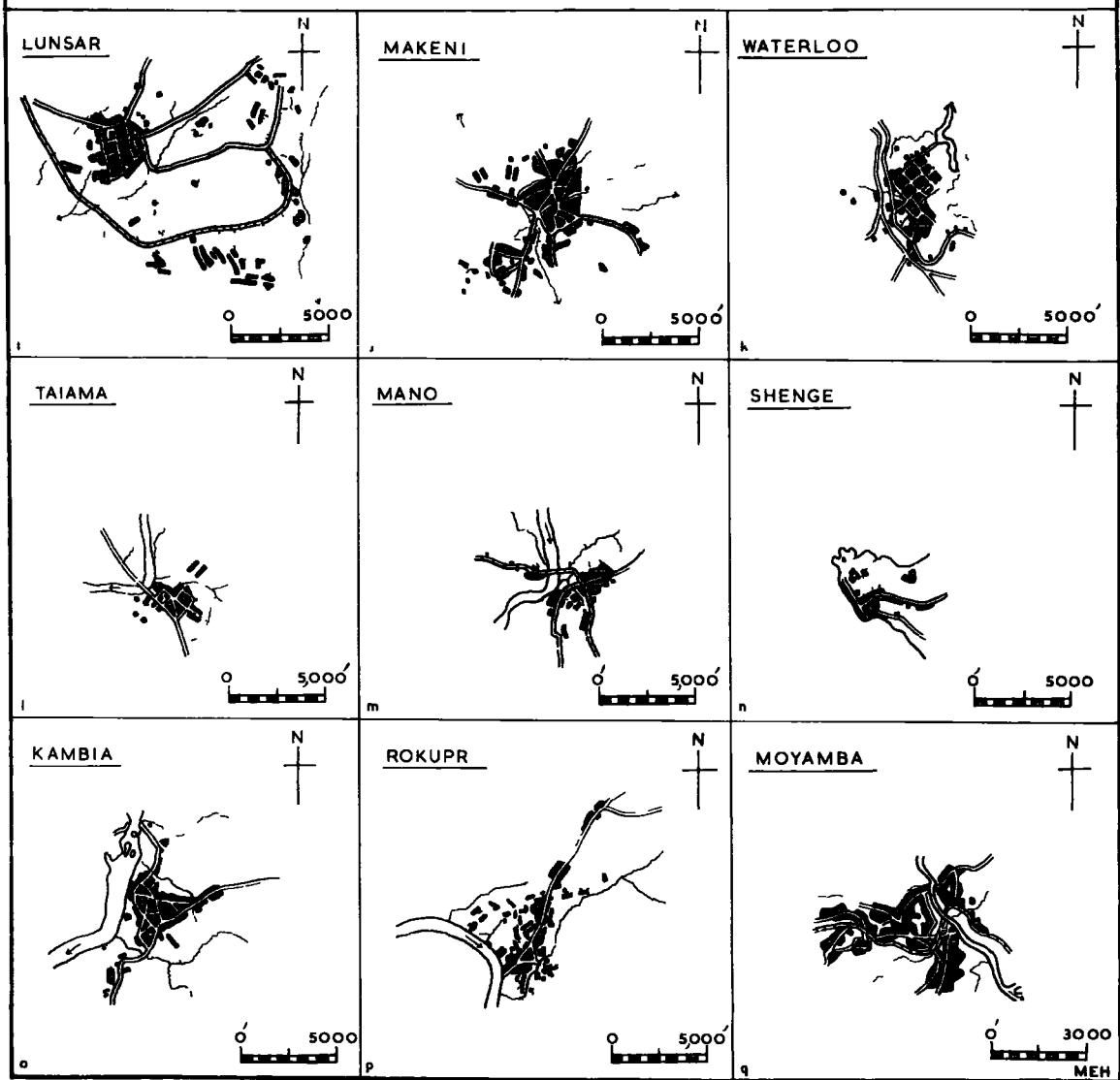
EXAMPLES OF URBAN PLANS IN SIERPA¹ LEONE

Fig. 6.2. Examples of Urban Plans in Sierra Leone (Lunsar, Makeni, Waterloo, Taiama, Mano, Shenge, Kambia, Rokupr, Moyamba).

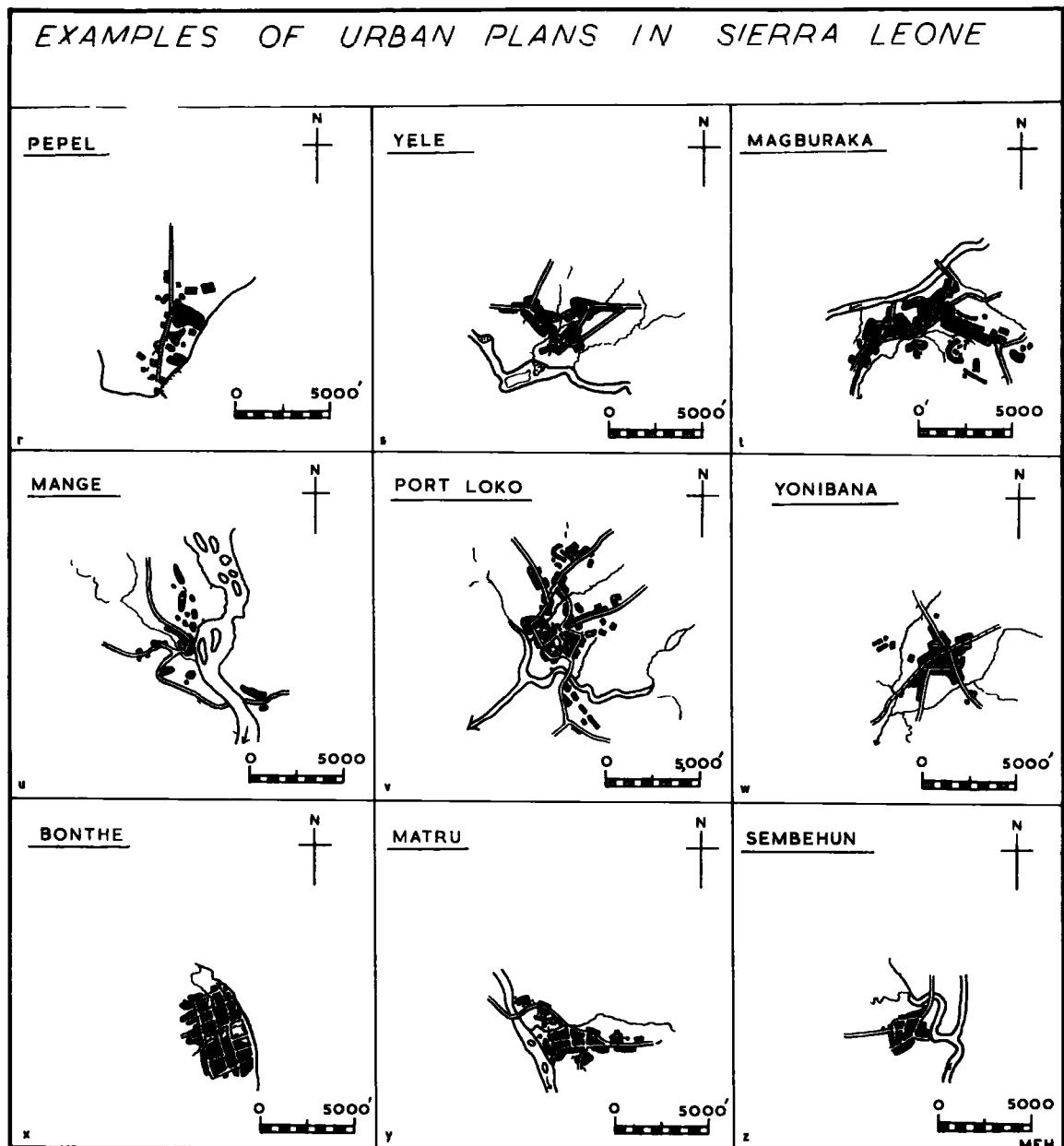


Fig. 6.3. Examples of Urban Plans in Sierra Leone (Pepel, Yele, Magburaka, Mange, Port Loko, Yonibana, Bonthe, Matru, Sembuhun).

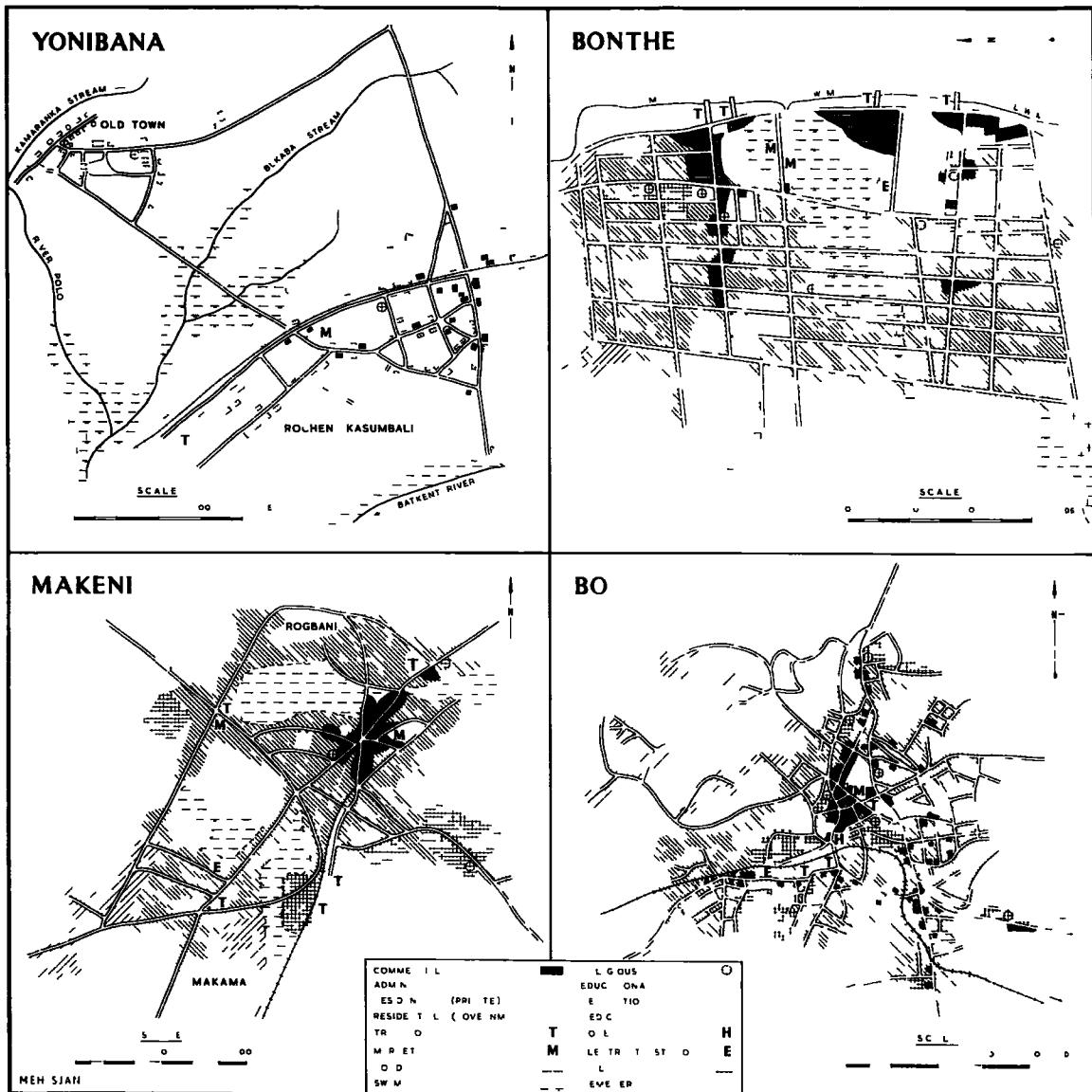


Fig. 8.1. Urban Land Use (Yonibana, Bonthe, Makeni, Bo).

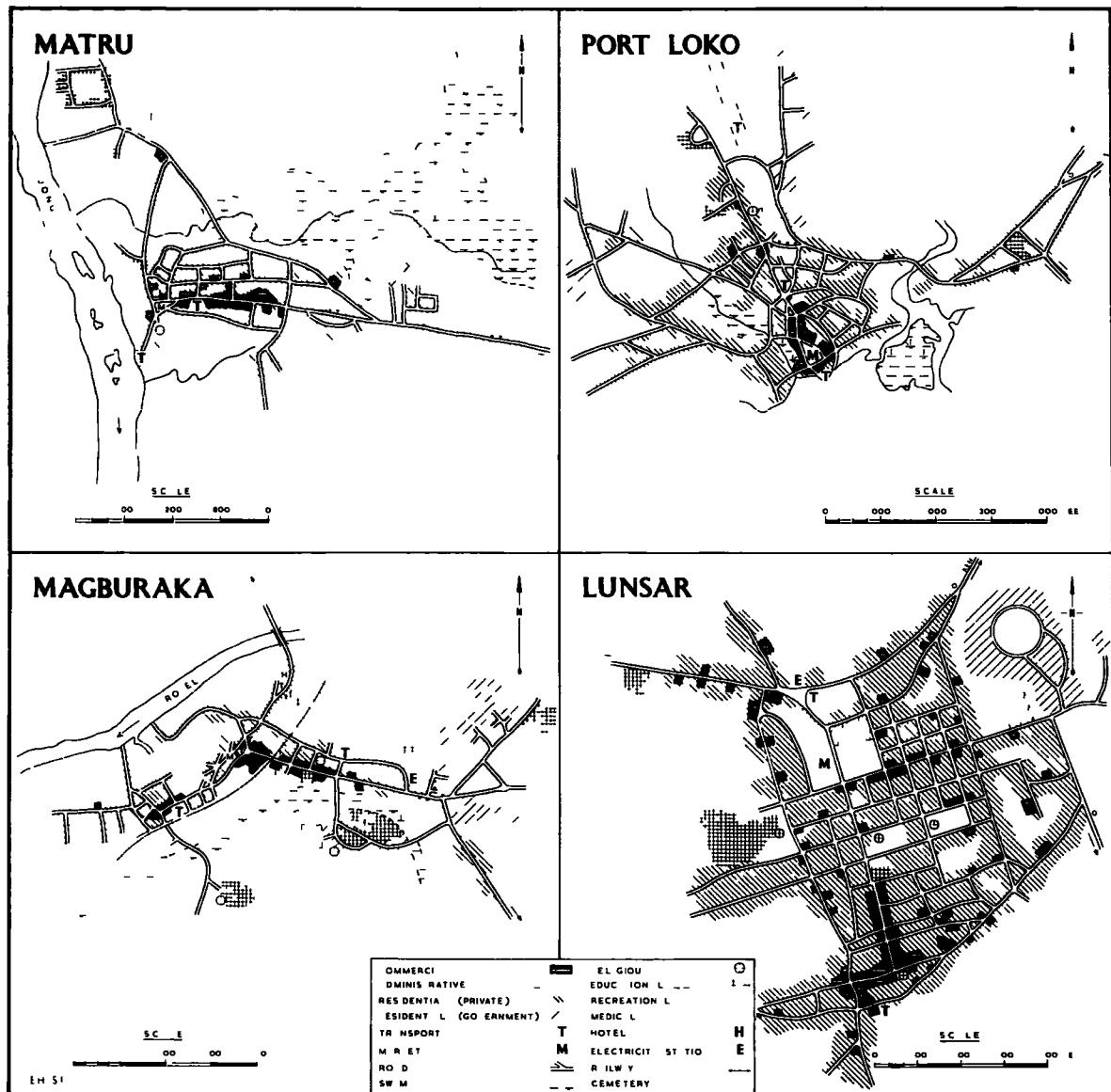


Fig. 8.2. Urban Land Use (Matru, Port Loko, Magburaka, Lunsar).

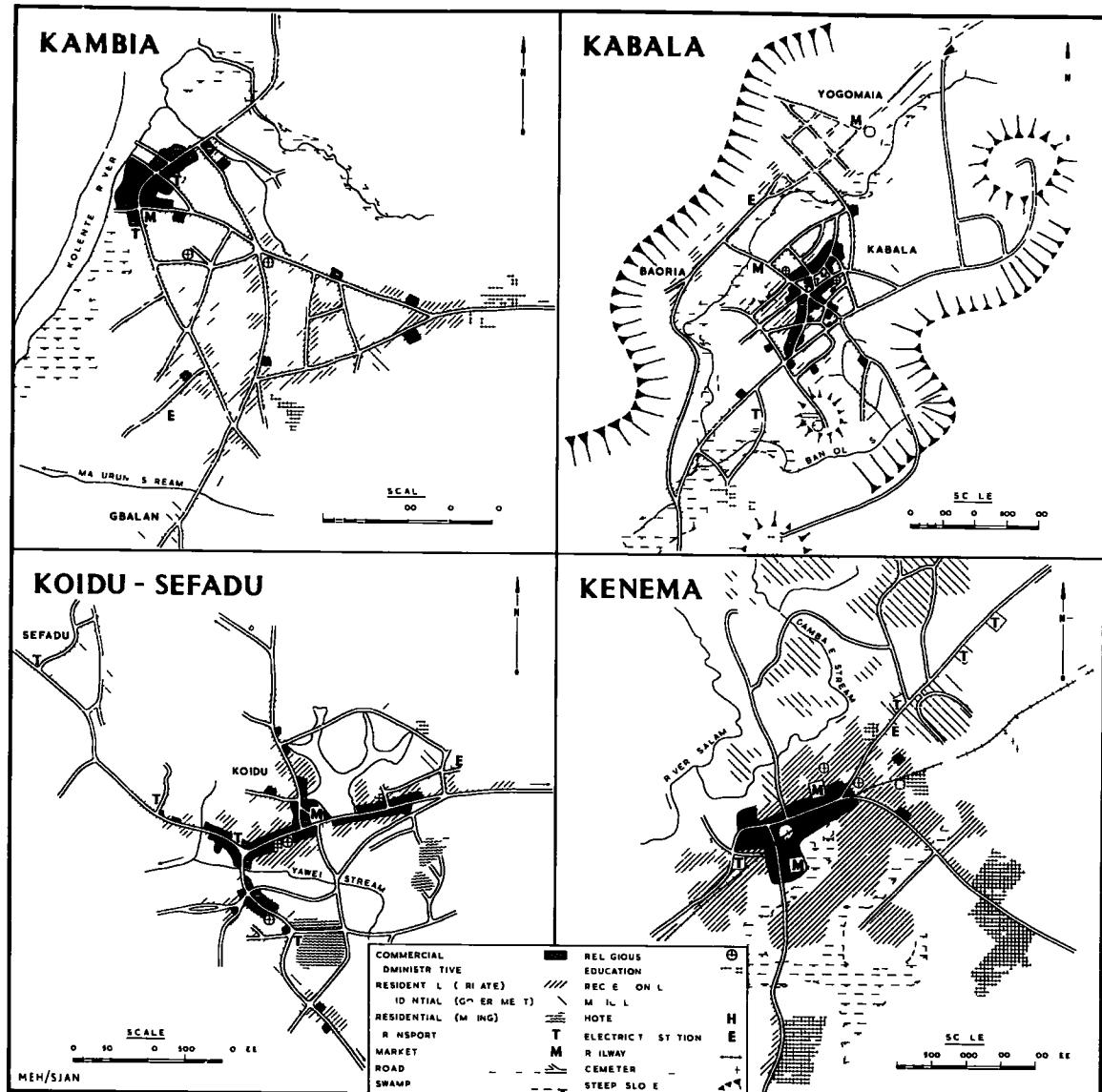


Fig. 8.3. Urban Land Use (Kambia, Kabala, Koidu-Sefadu, Kenema).

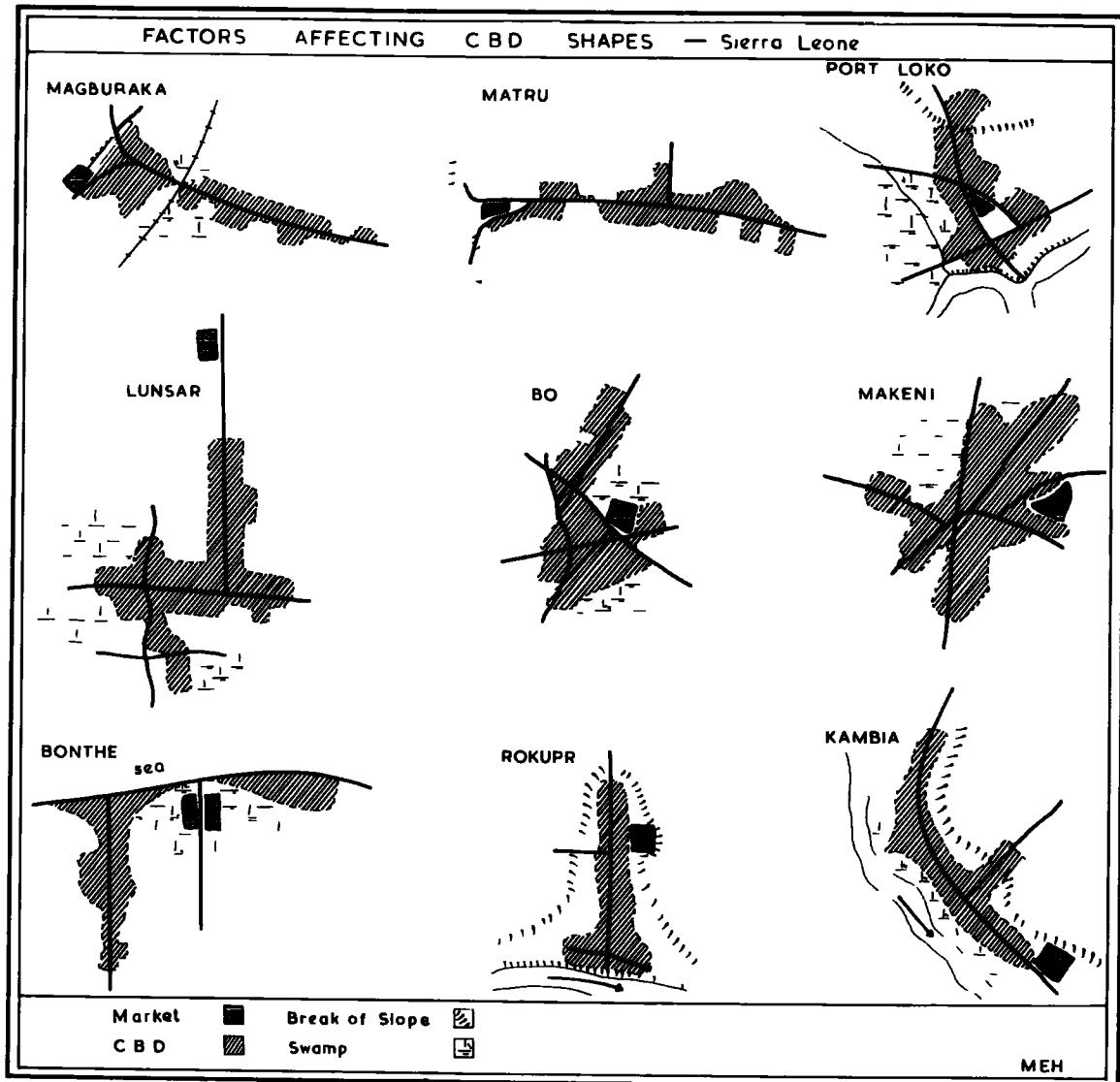


Fig. 8.4. Factors Affecting CBD Shapes, Sierra Leone.

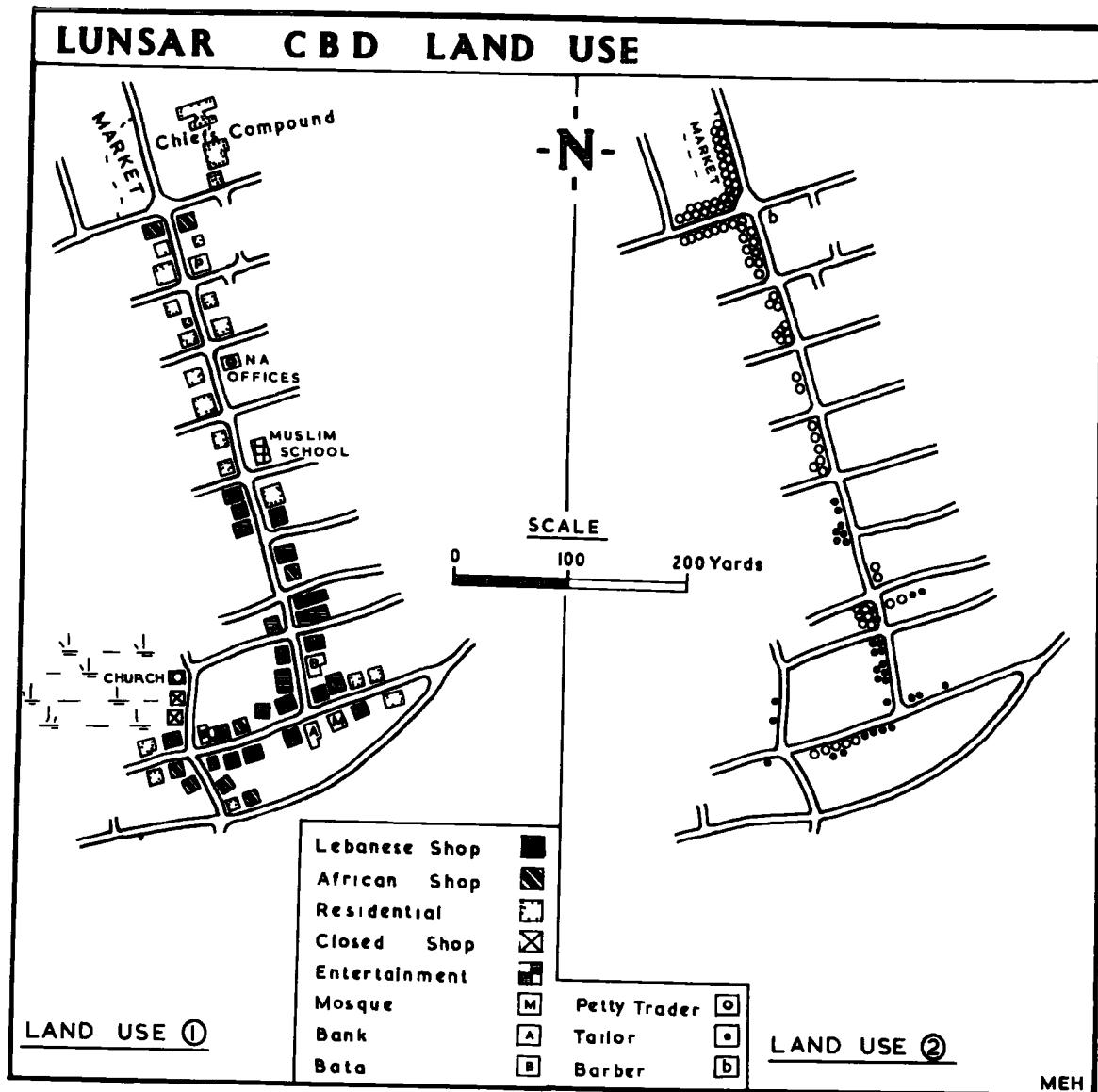


Fig. 8.5. Lunsar, CBD Land Use.

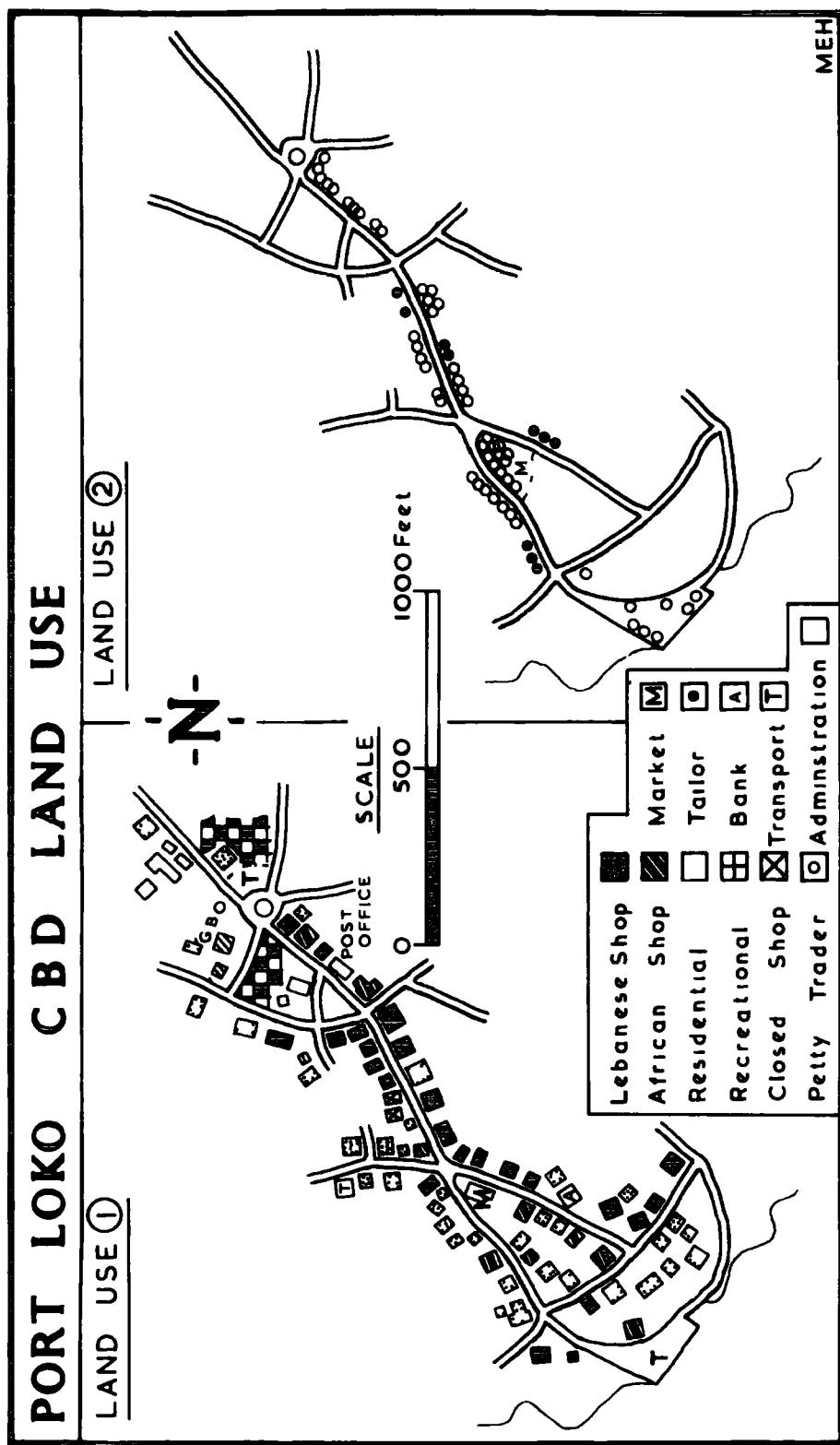


Fig. 8.6. Port Loko, CBD Land Use.

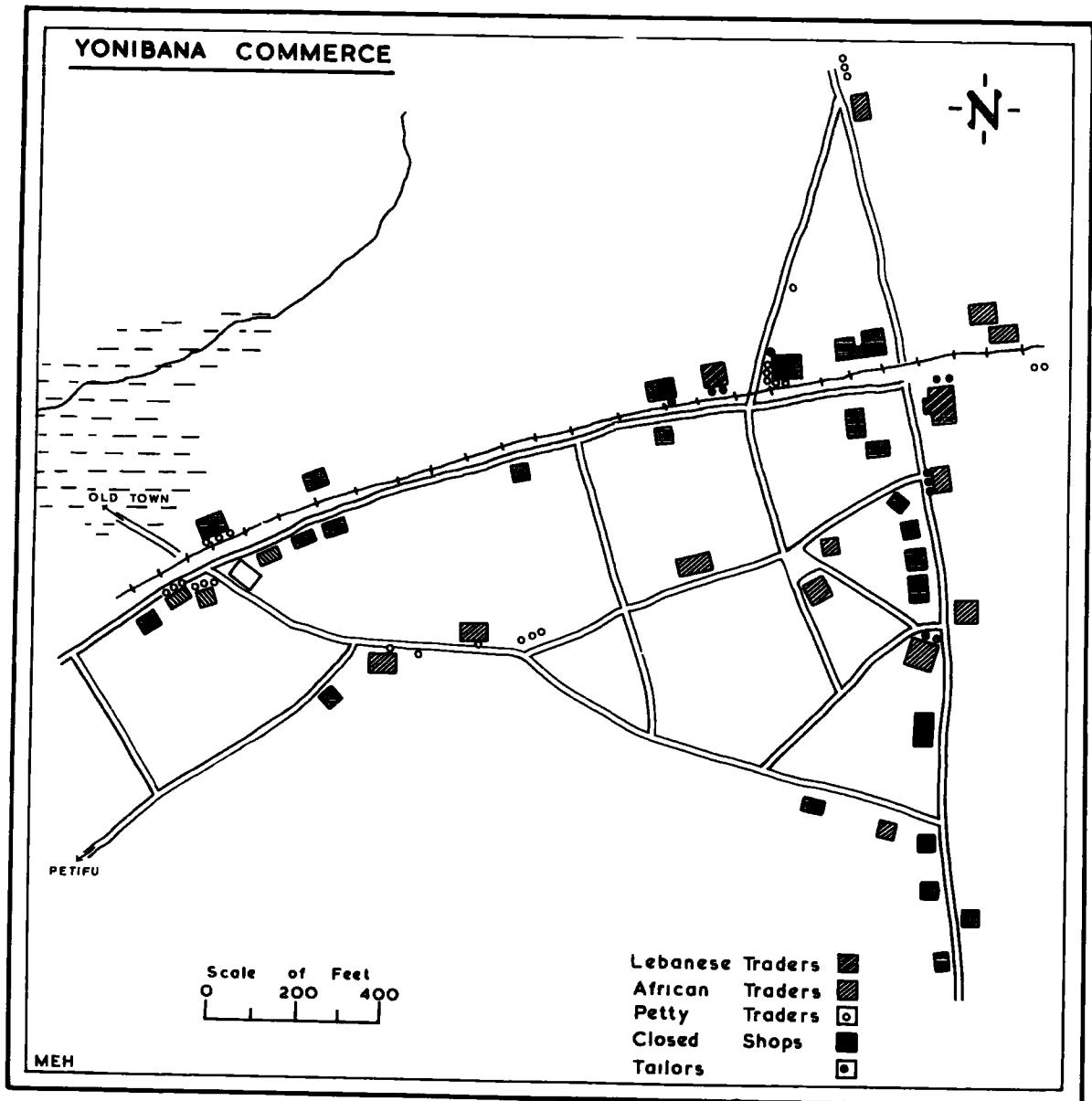


Fig. 8.7. Yonibana, Commerce.

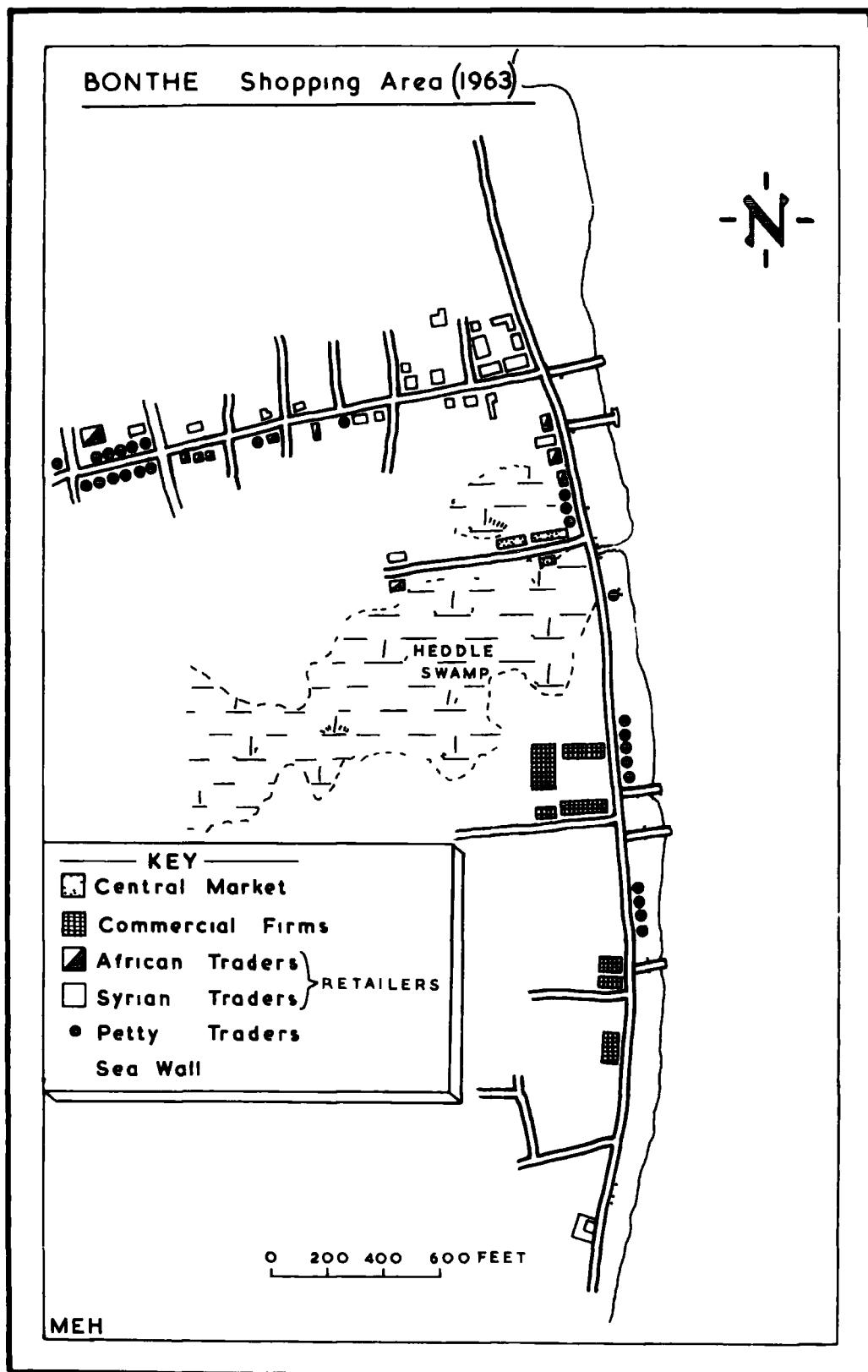


Fig. 8.8. Bonthe, Shopping Centre, 1963.

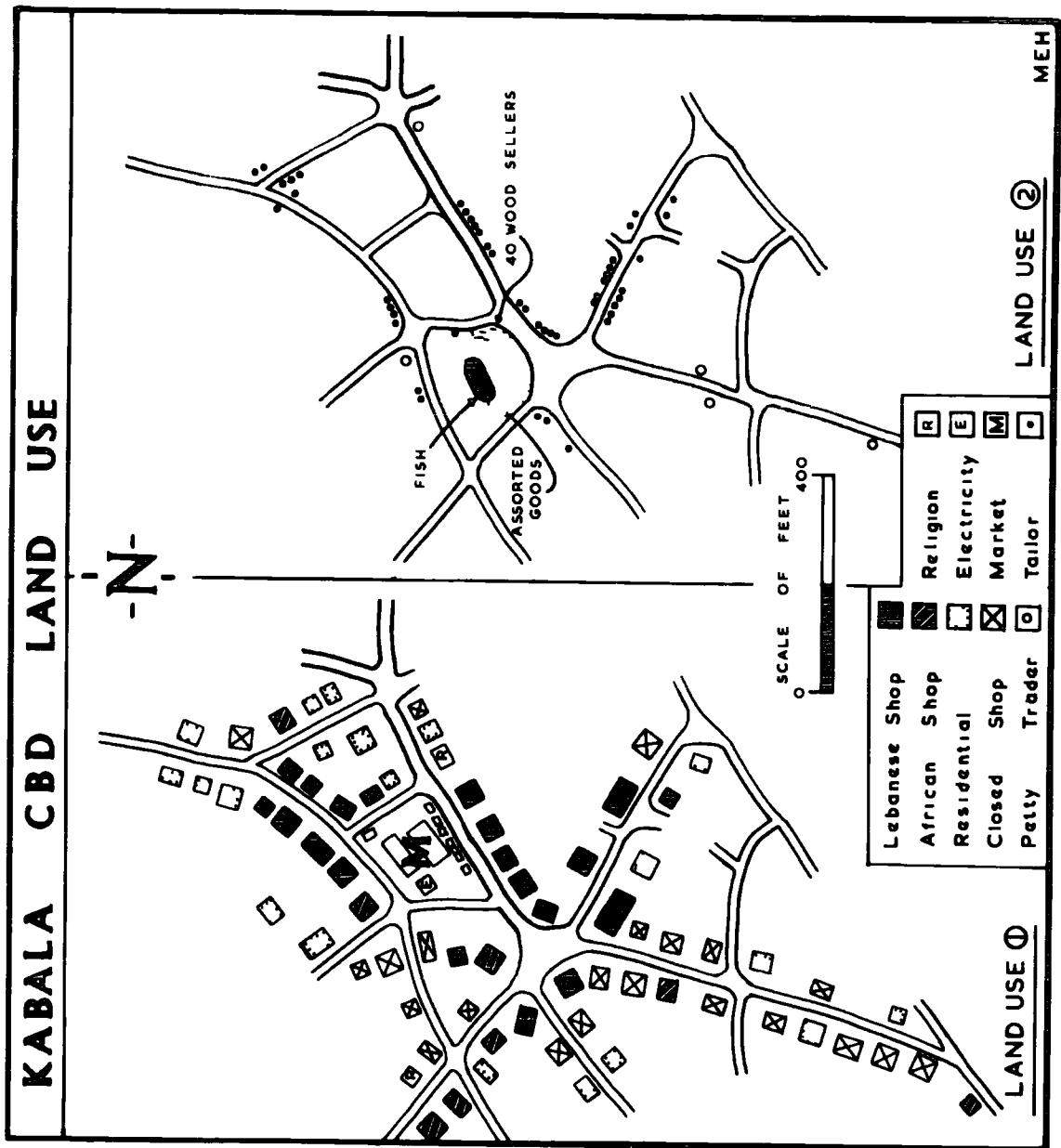


Fig. 8.9. Kabala, CBD Land Use.

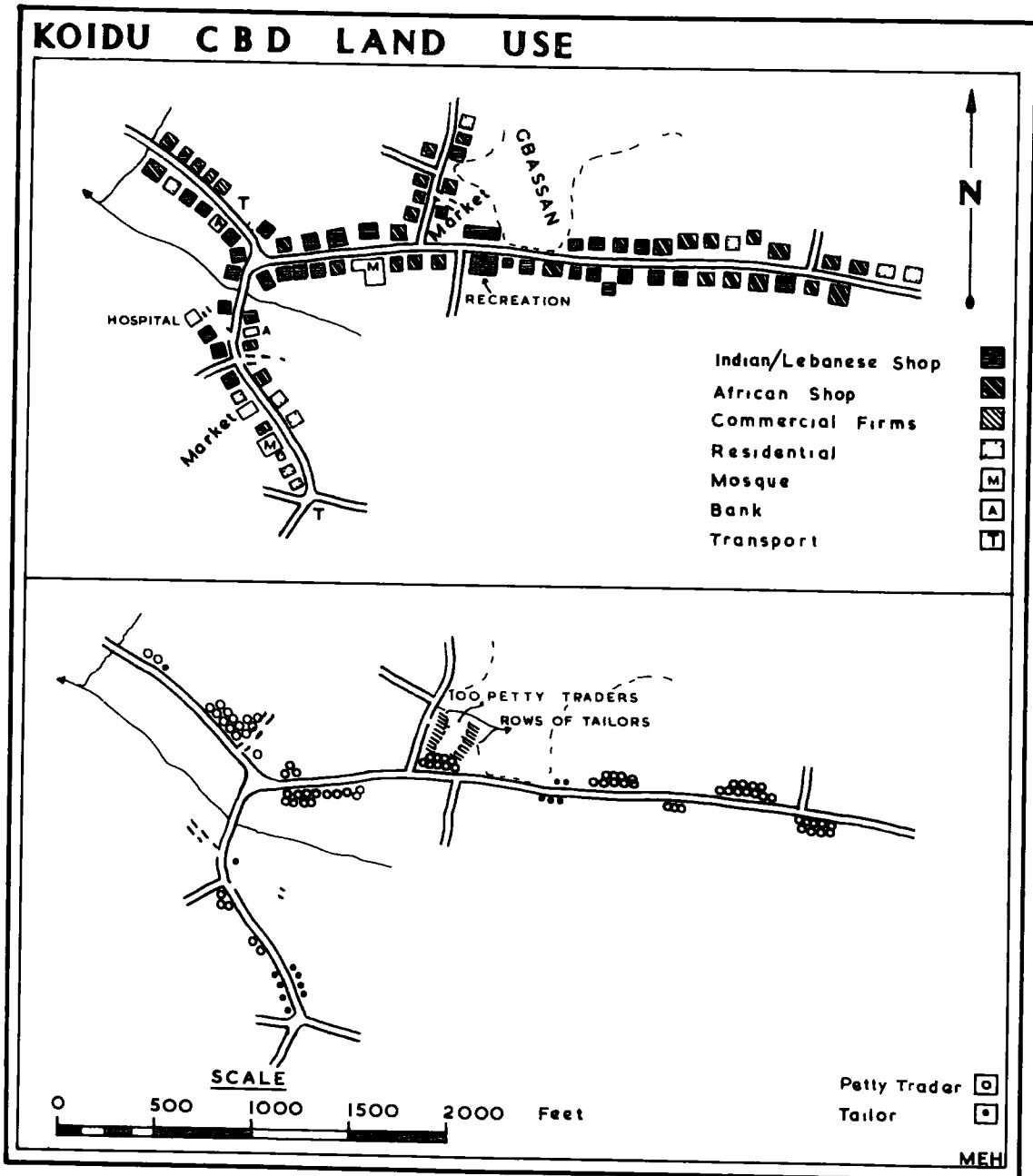


Fig. 8.10. Koidu, CBD Land Use.

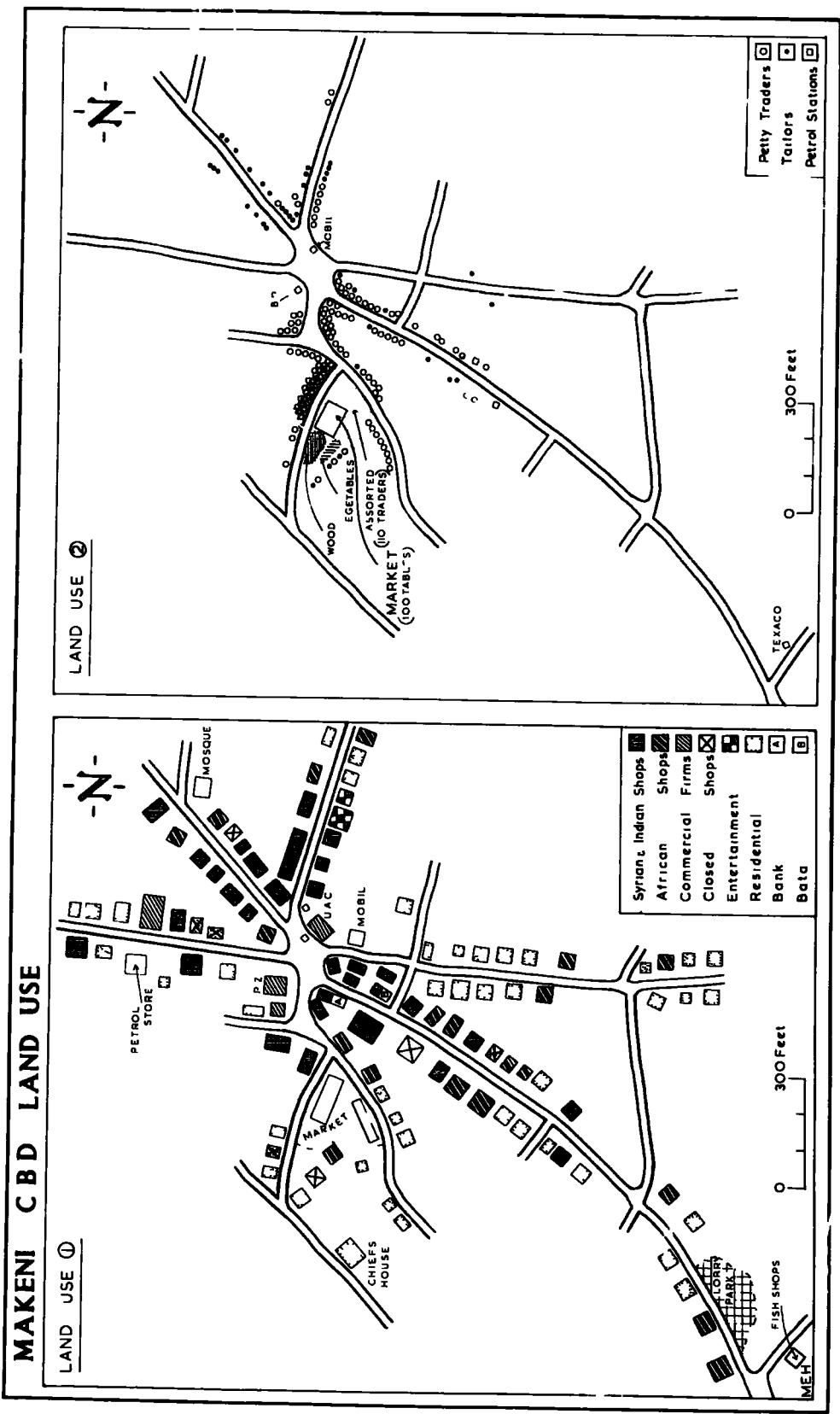


Fig. 8.11. Makeni, CBD Land Use.

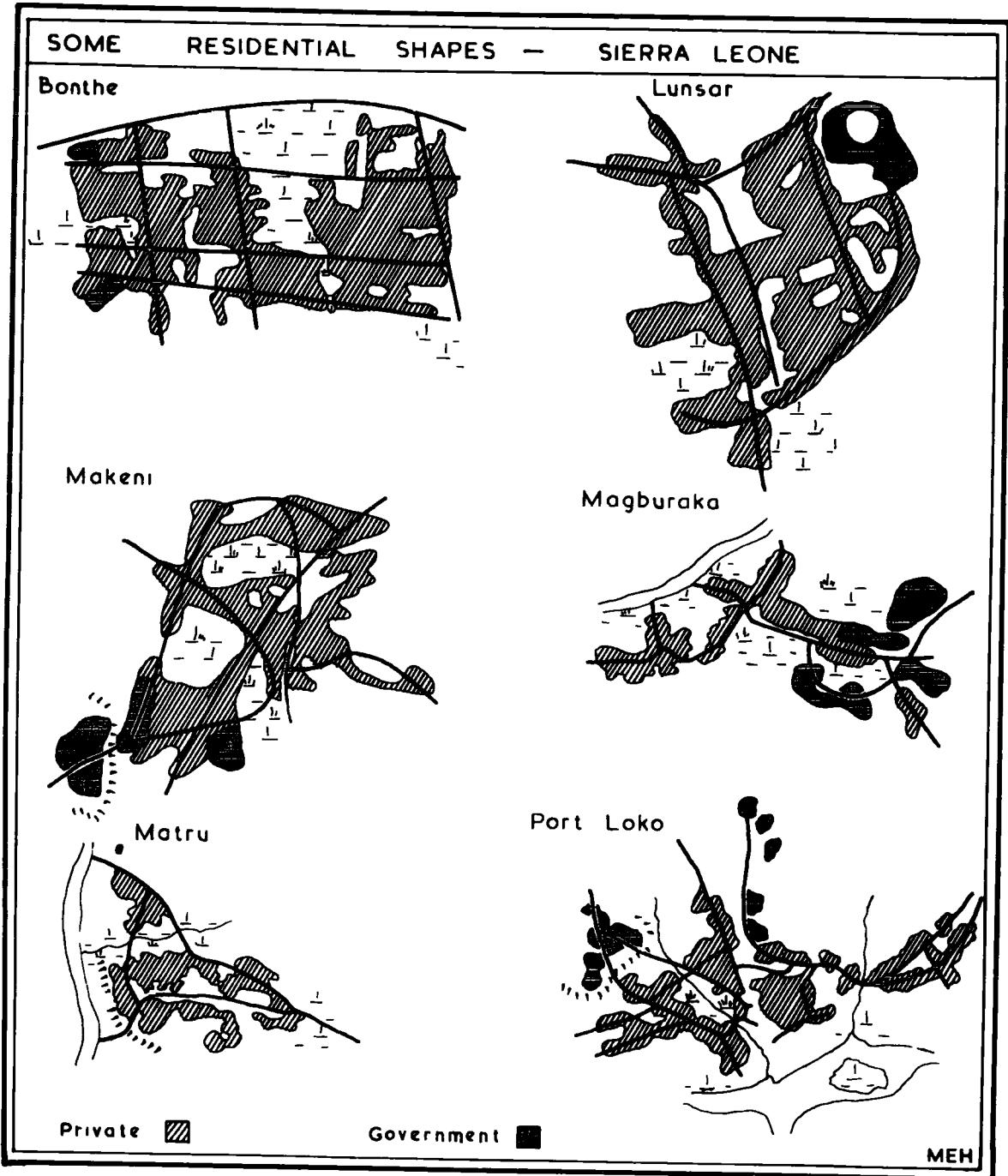


Fig. 8.12. Some Residential Shapes, Sierra Leone.

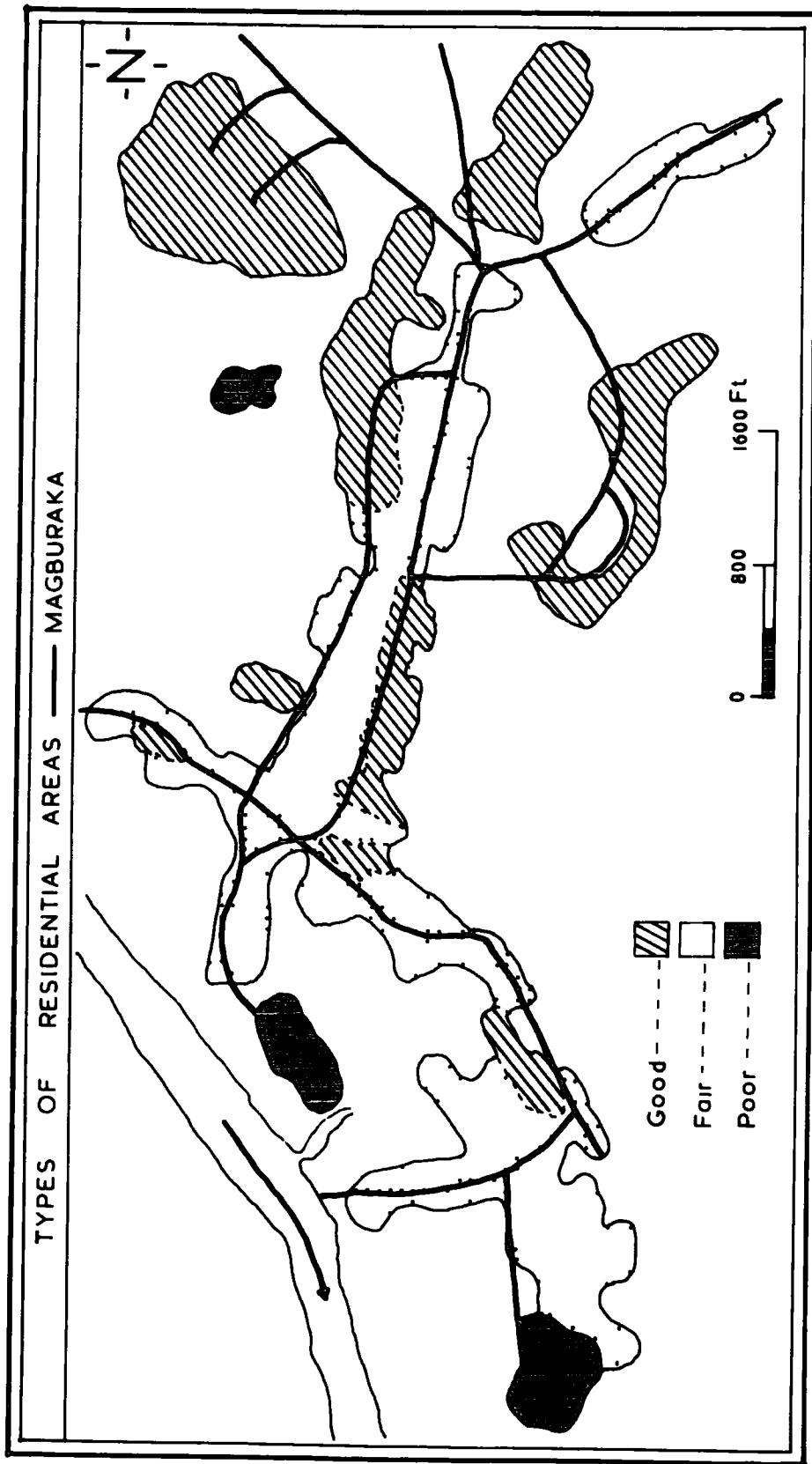


Fig. 8.13. Types of Residential Areas, Magburaka.



Fig. 8.14. Kenema, Distribution of Buildings.

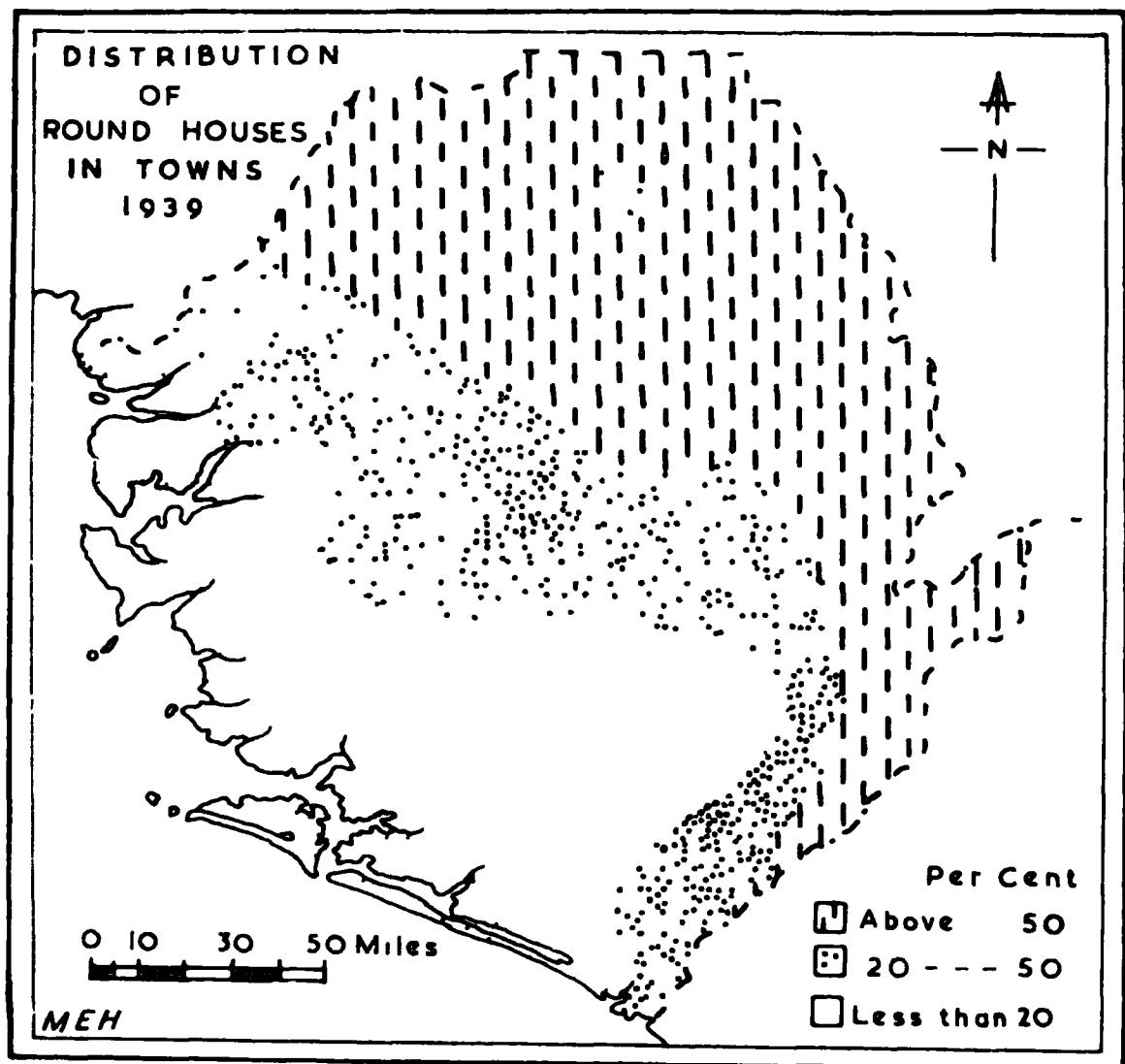


Fig. 9.1. Distribution of Round Houses in Towns, 1939.

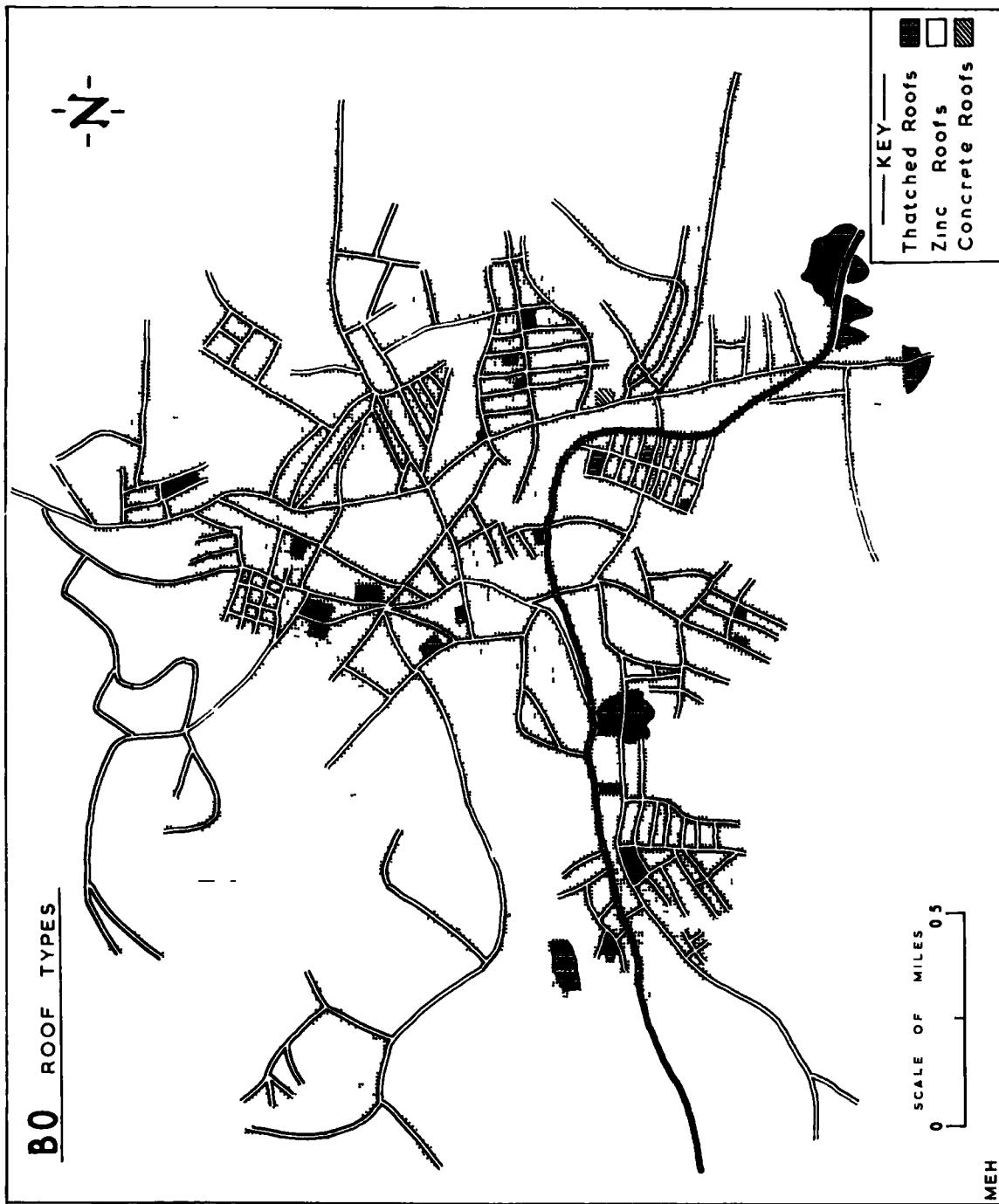
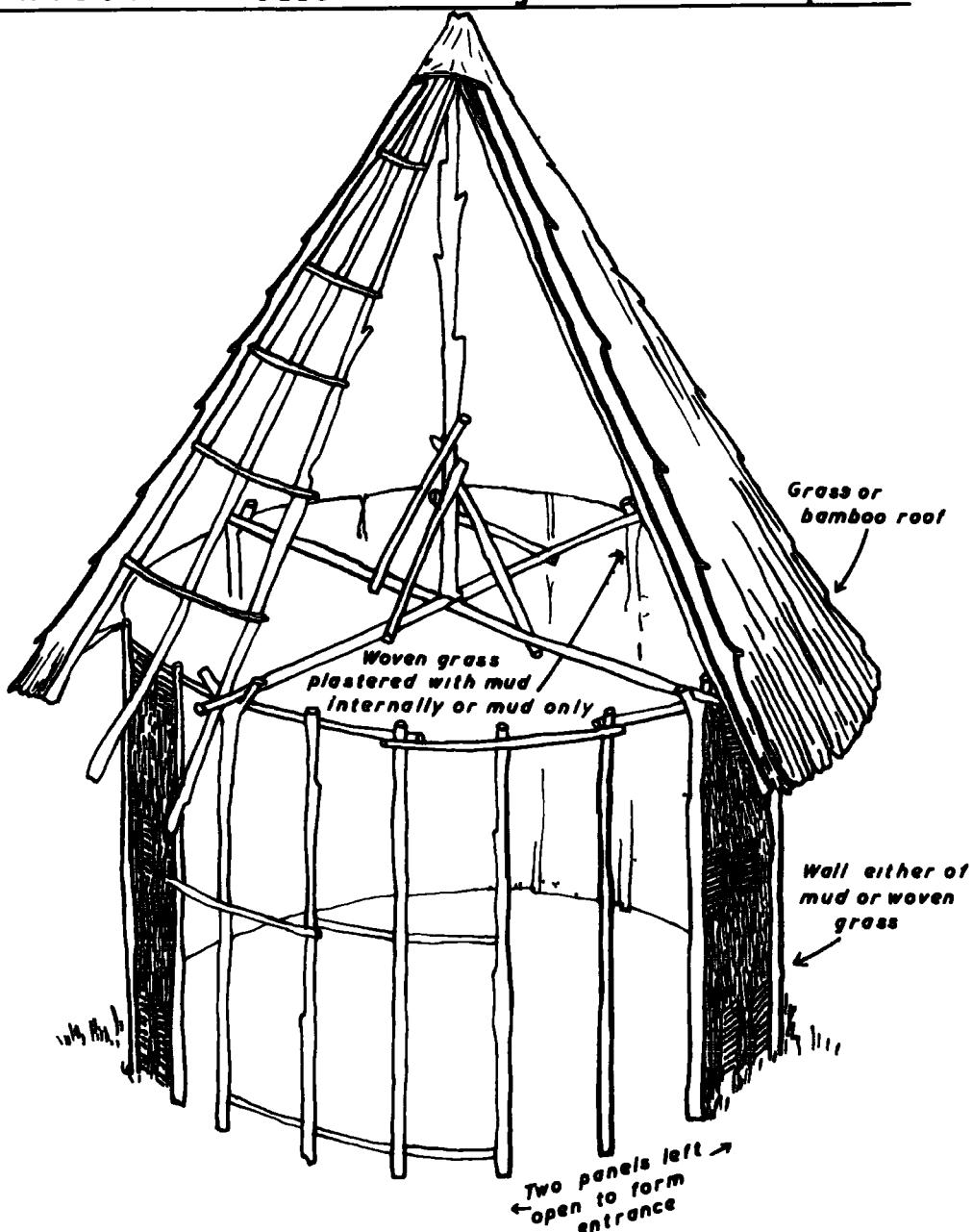


Fig. 9.2. BO, Roof Types.

A Traditional House showing the different parts



R. J. A.

Fig. 9.3. A Traditional Fulani Hut Showing the Different Parts.

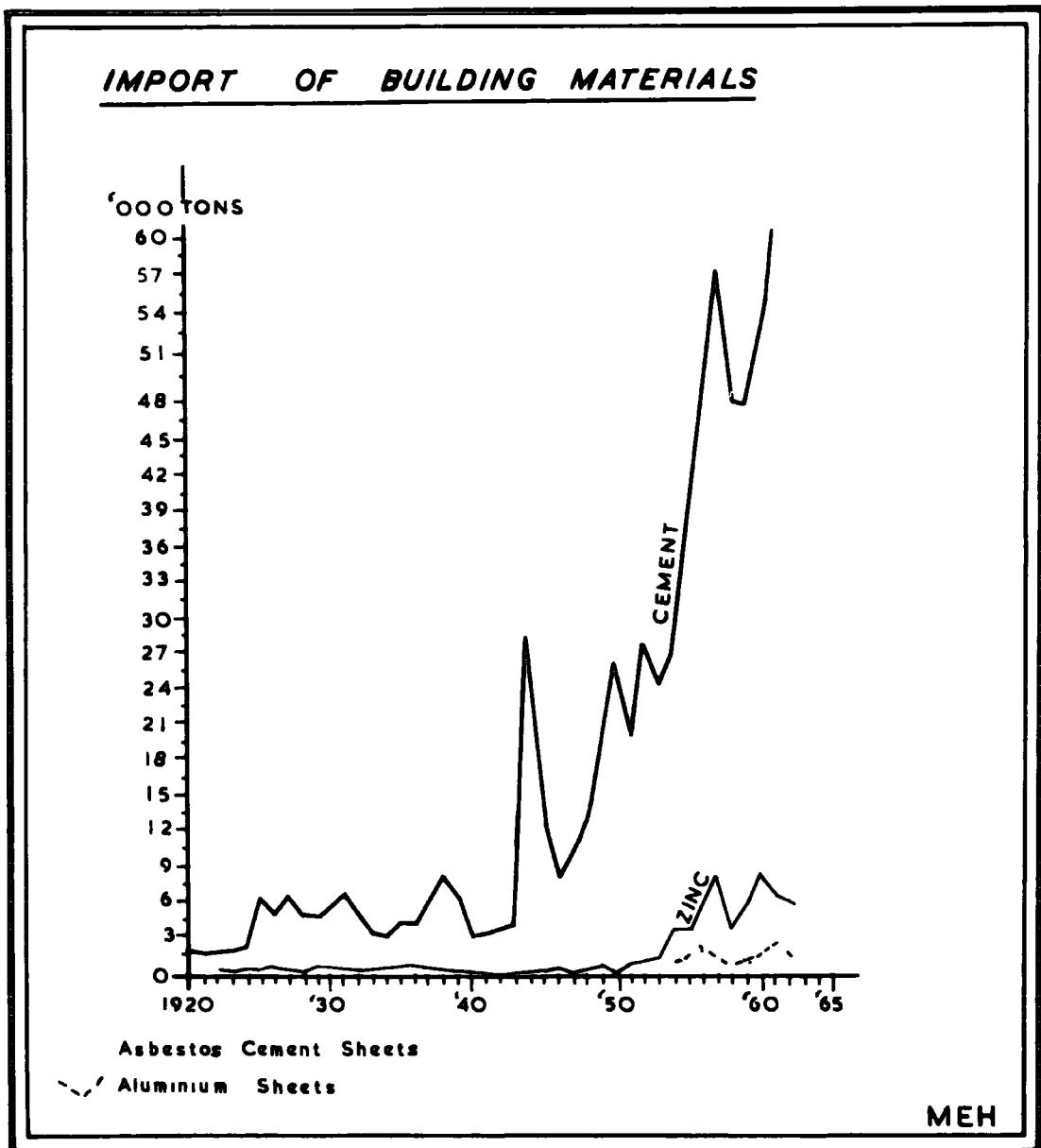


Fig. 9.4. Import of Building Materials, Sierra Leone (from 1920-1963).

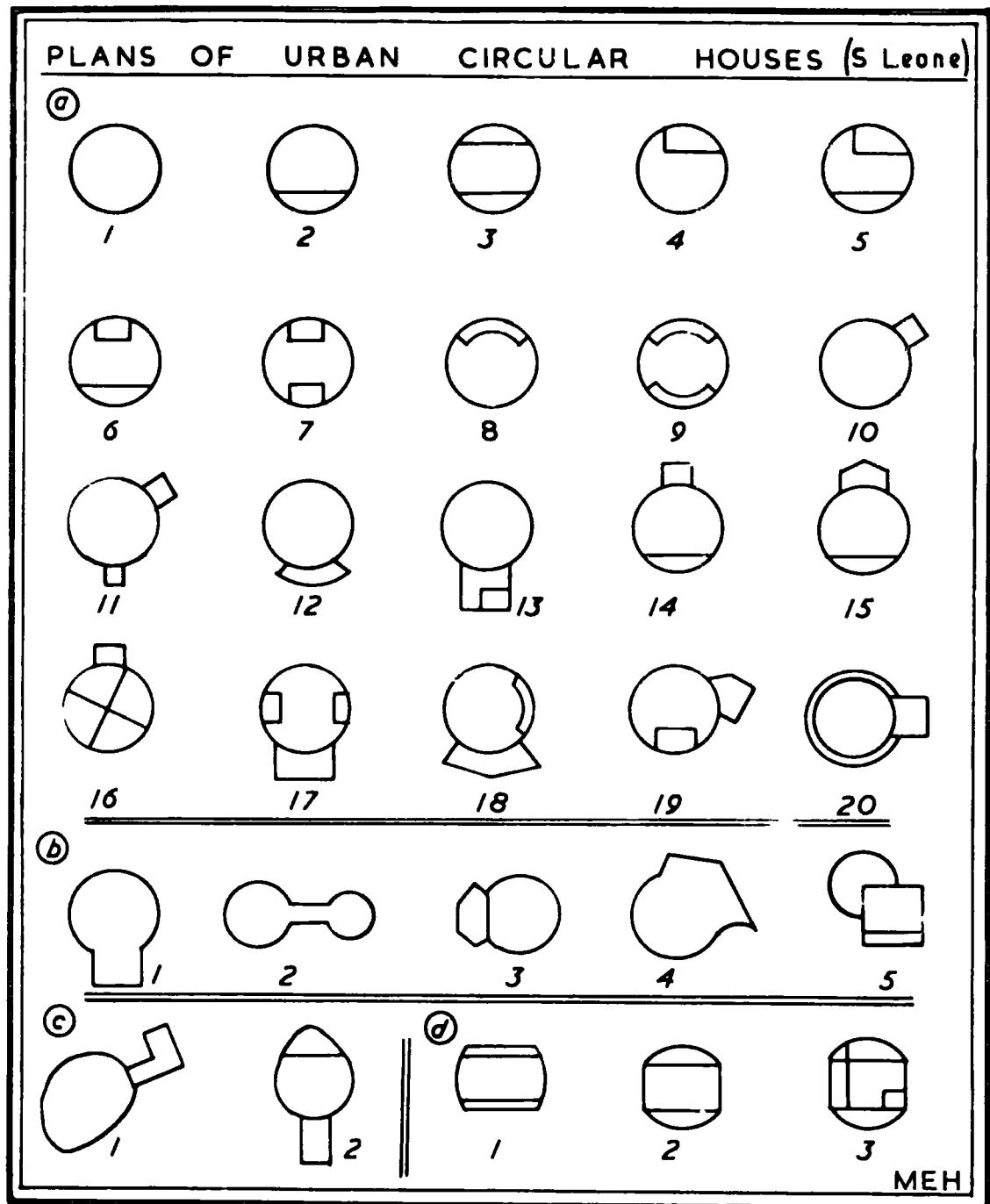


Fig. 9.5. Plans of Urban Circular Houses, Sierra Leone (from Cadastral Sheets)

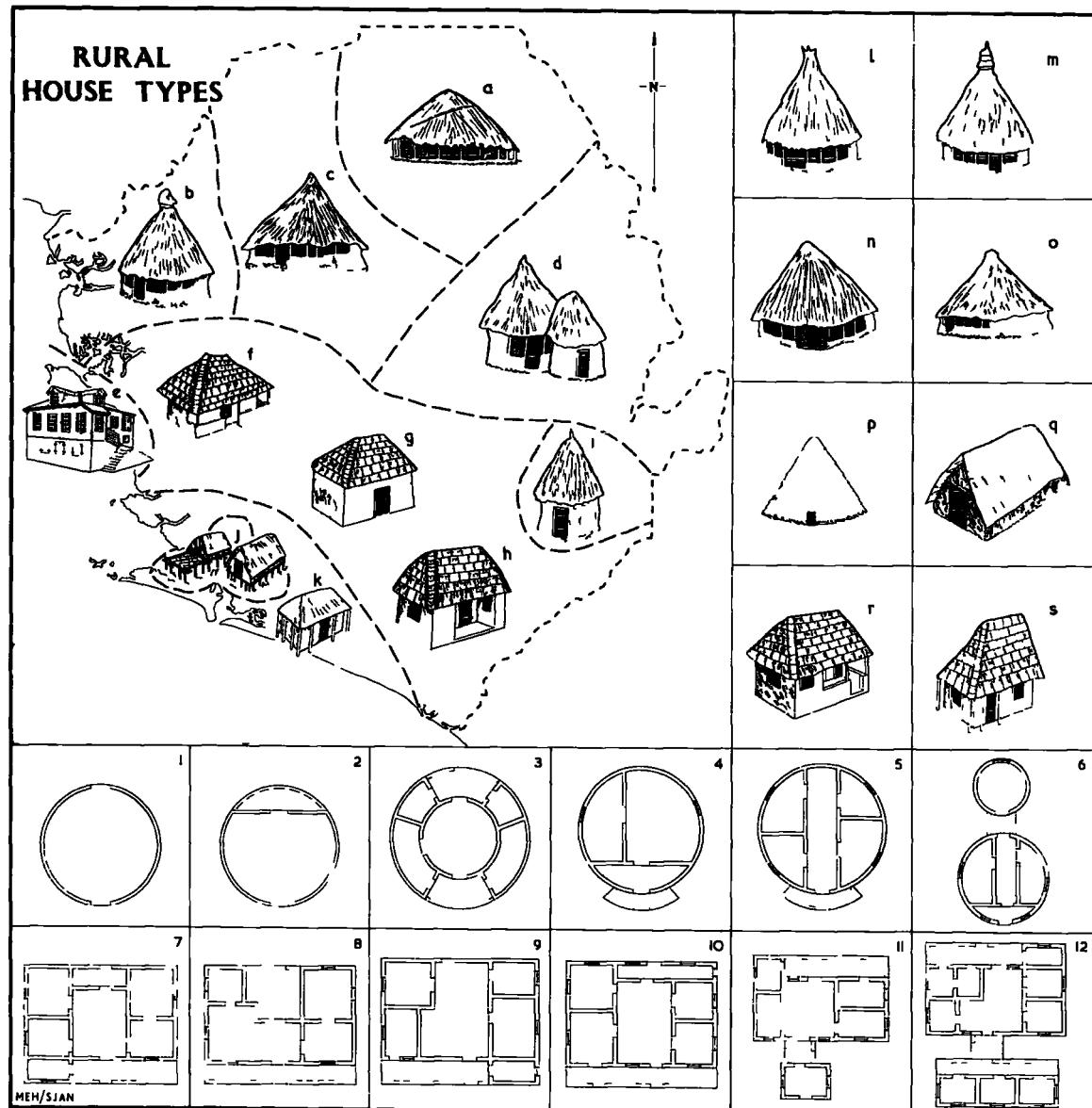


Fig. 9.6. Rural House Types, Sierra Leone.

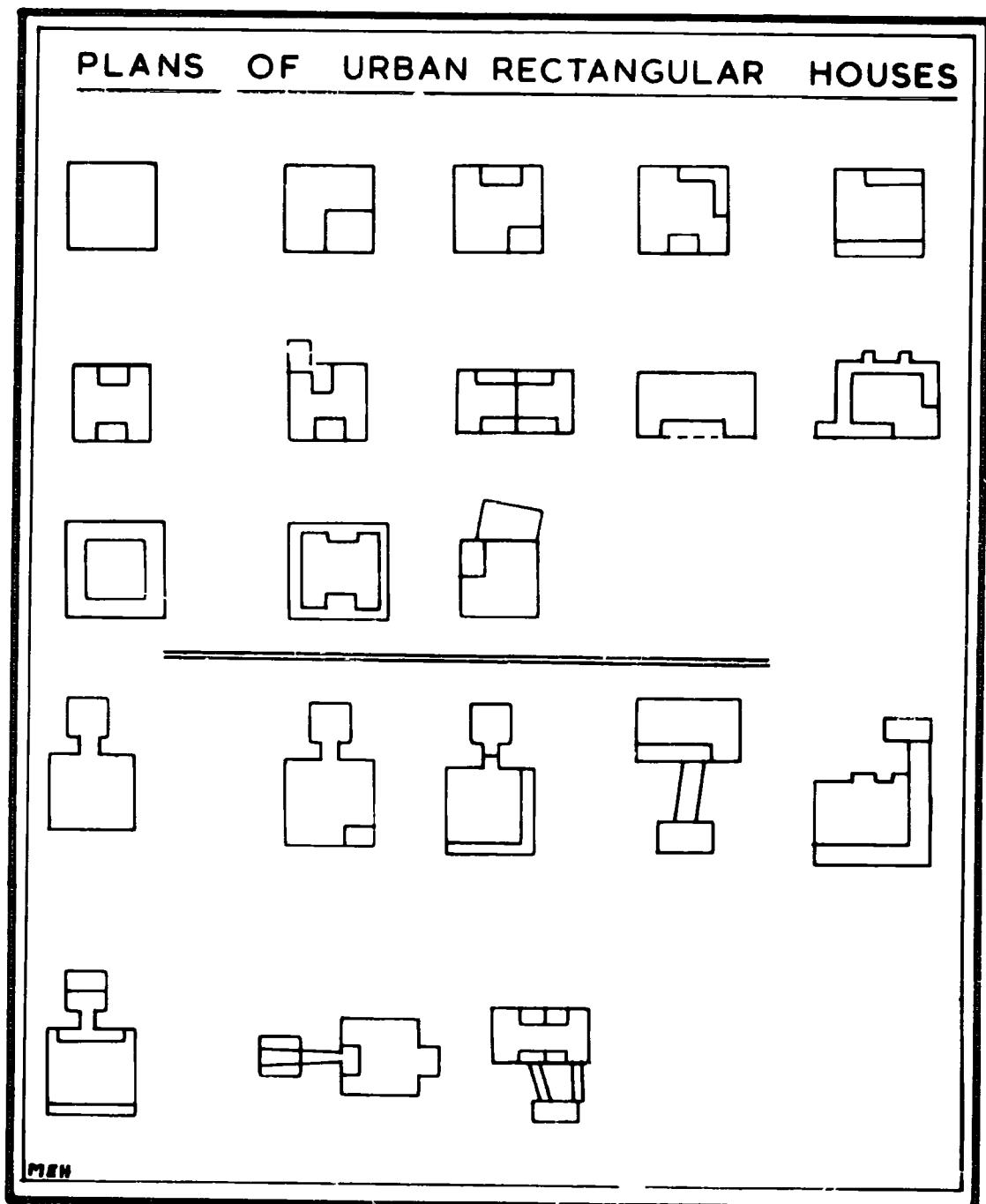


Fig. 9.7. Plans of Urban Rectangular Houses, Sierra Leone (from Cadastral Sheets).

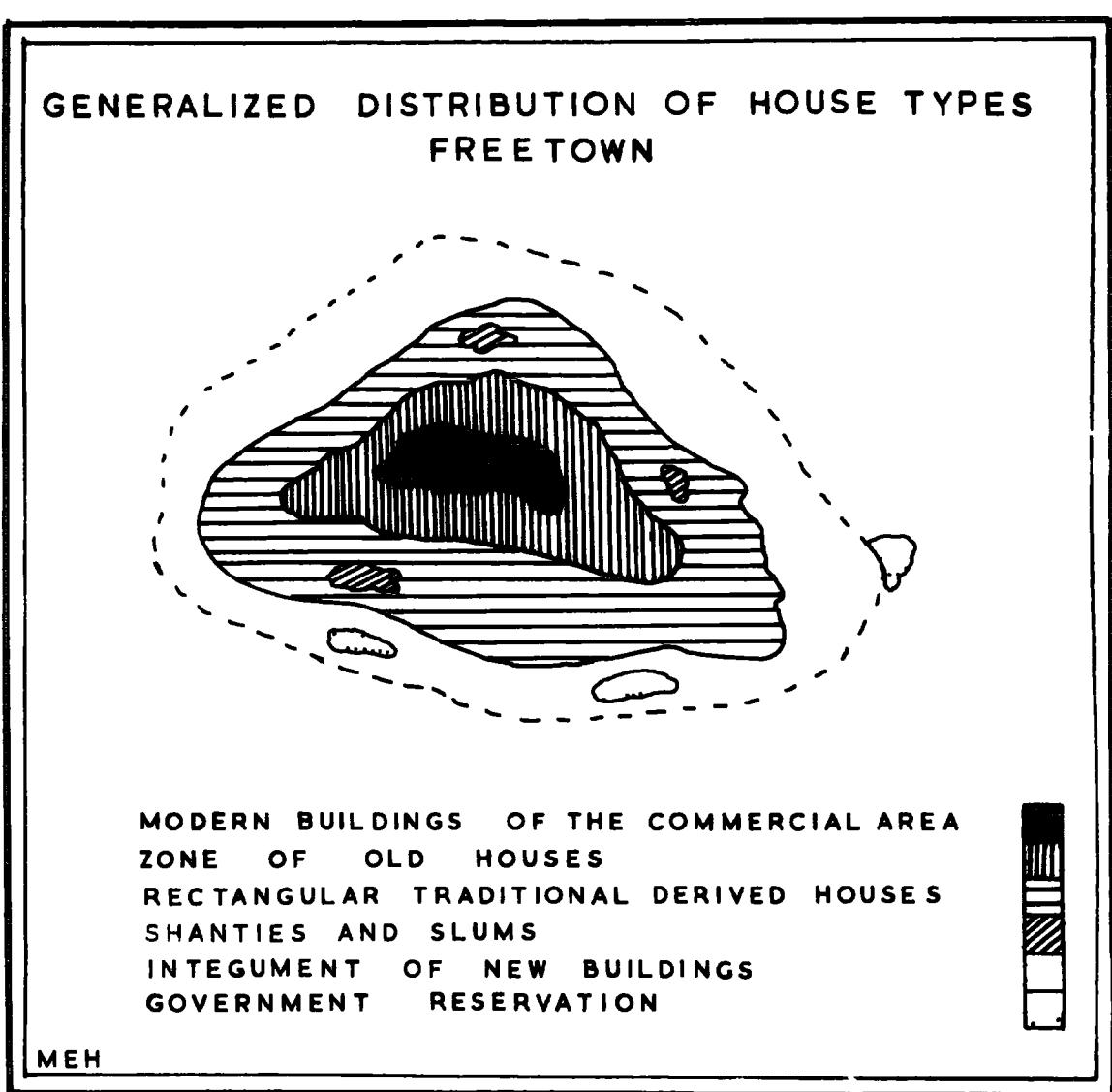


Fig. 9.8. Generalized Distribution of House Types in Freetown.

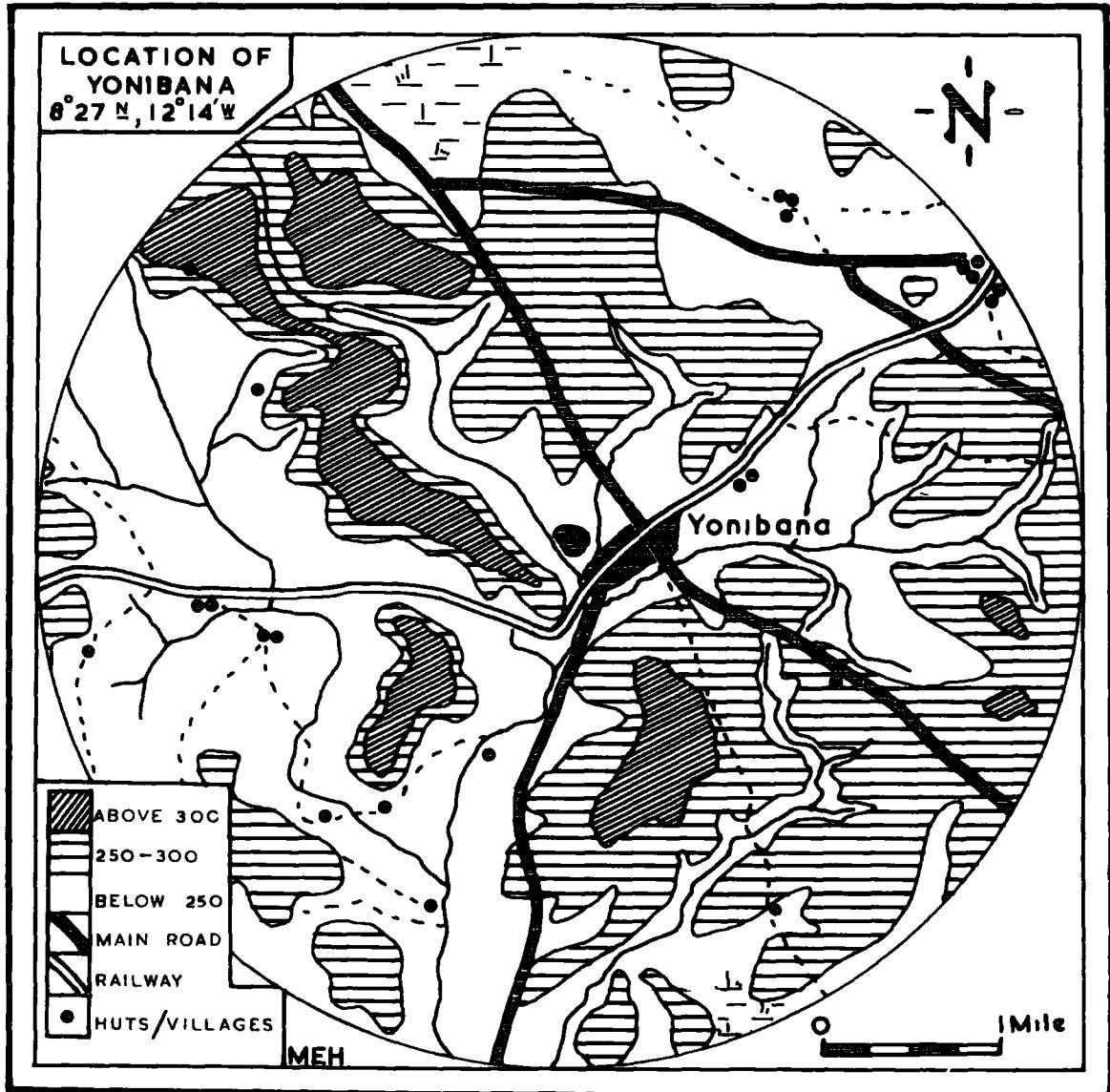


Fig. 10.1. Location of Yonibana.

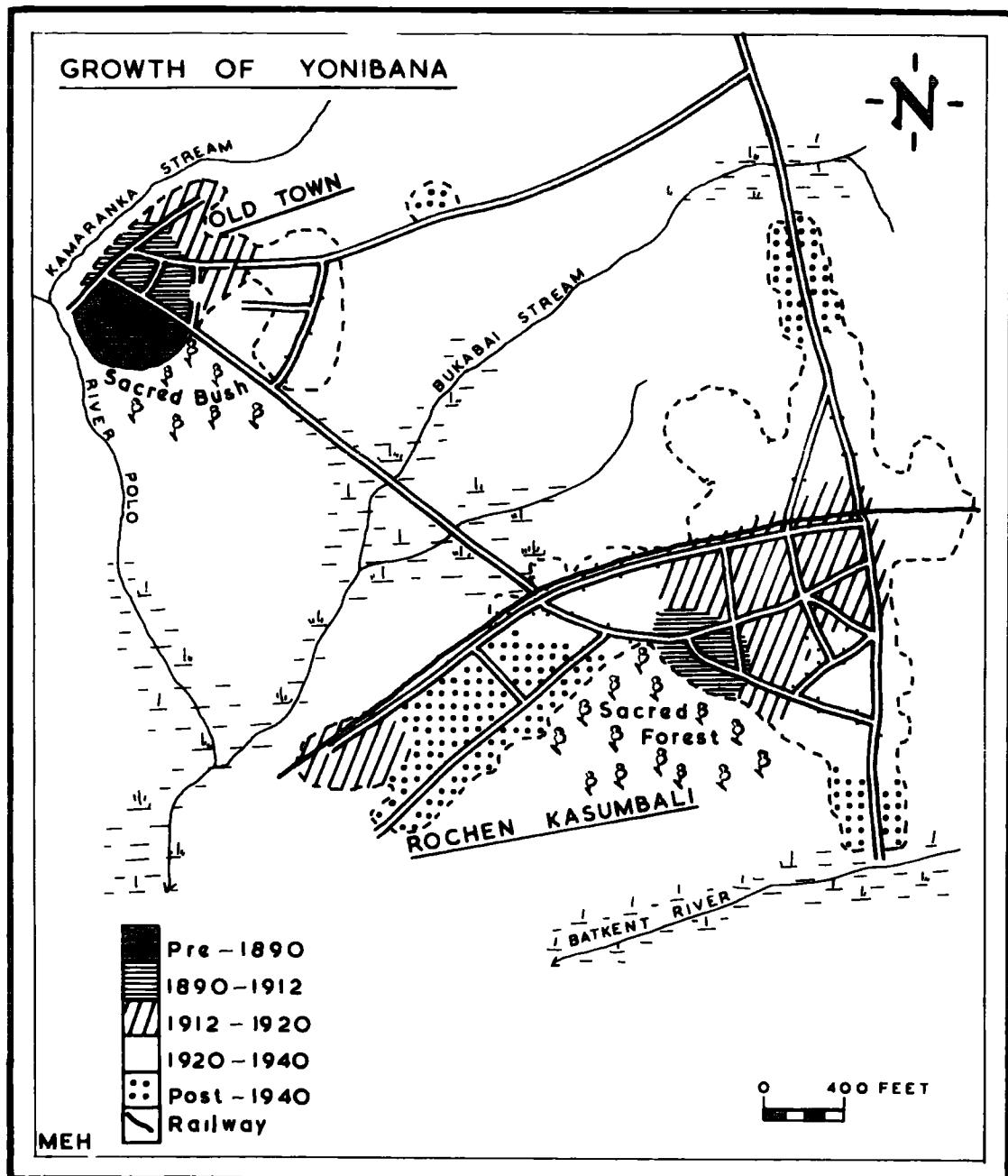


Fig. 10.2. Growth of Yonibana.

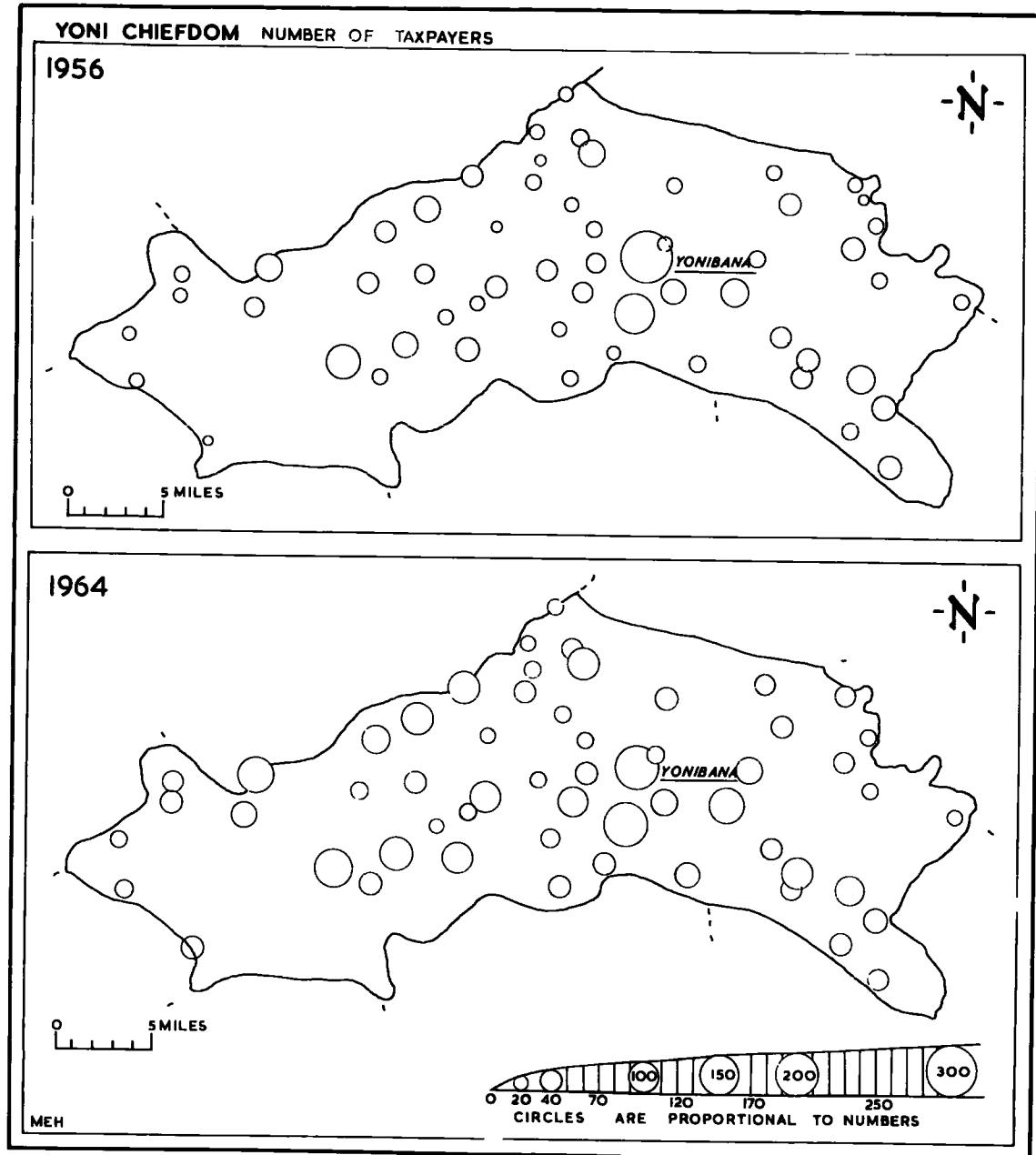


Fig. 10.3. Taxpayers in Yoni Chiefdom.

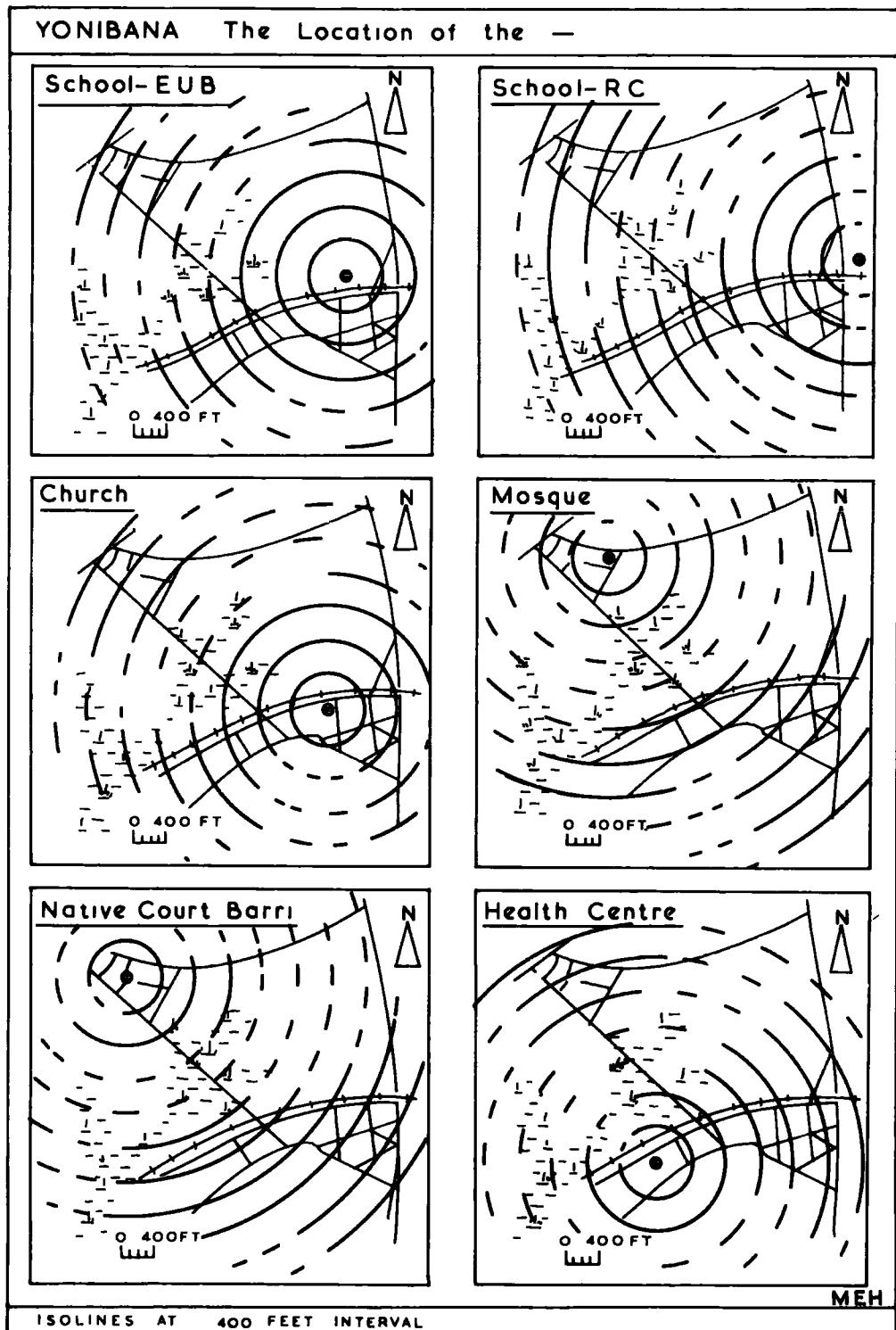


Fig. 10.4. Yonibana: Location of Some Services (Schools, Church, Mosque, Native Court Barri, Health Centre).

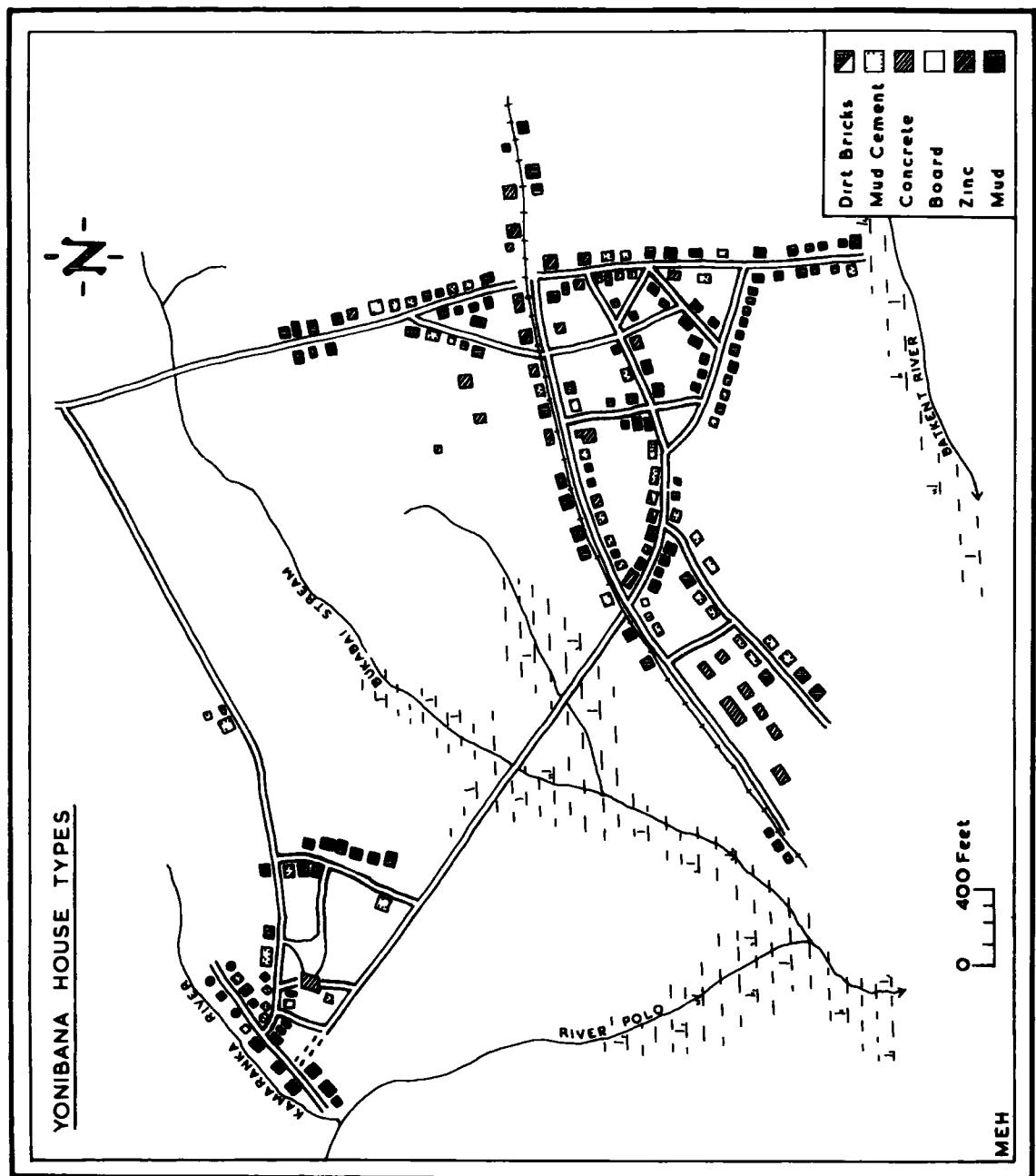


Fig. 10.5. Yonibana: House Types.

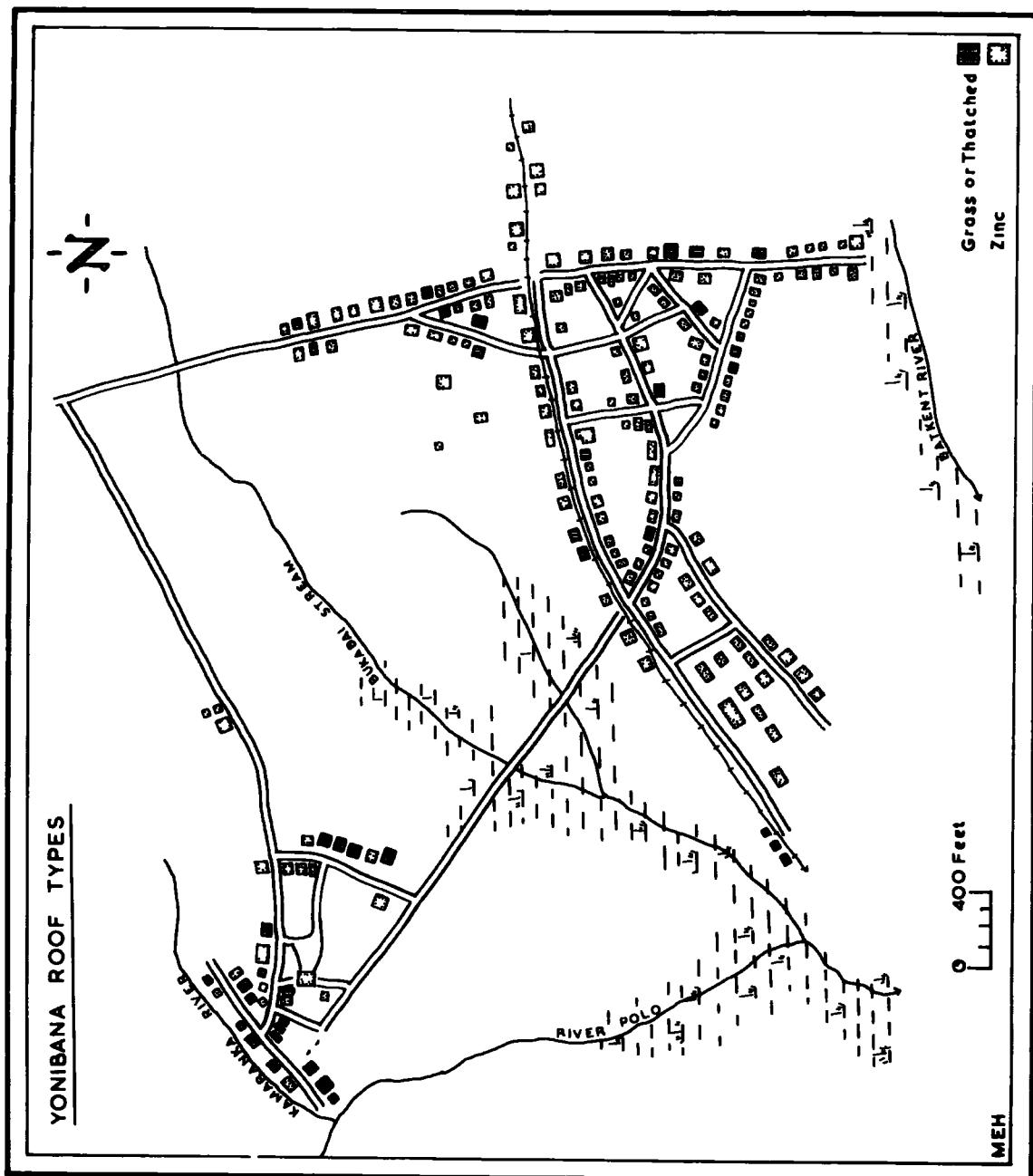


Fig. 10.6. Yonibana: Roof Types.

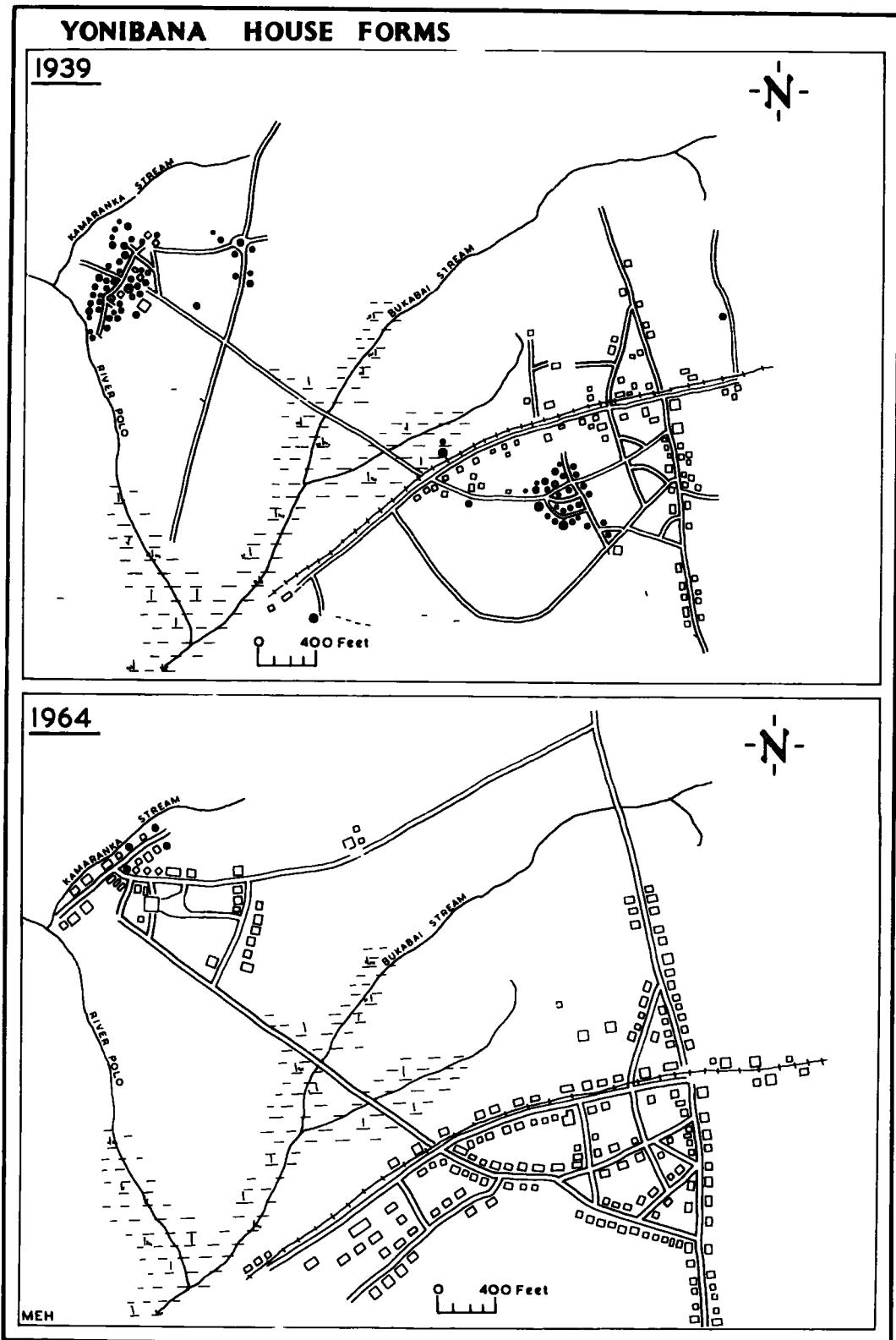


Fig. 10.7. Yonibana: Changes in House Types (1939 and 1964).

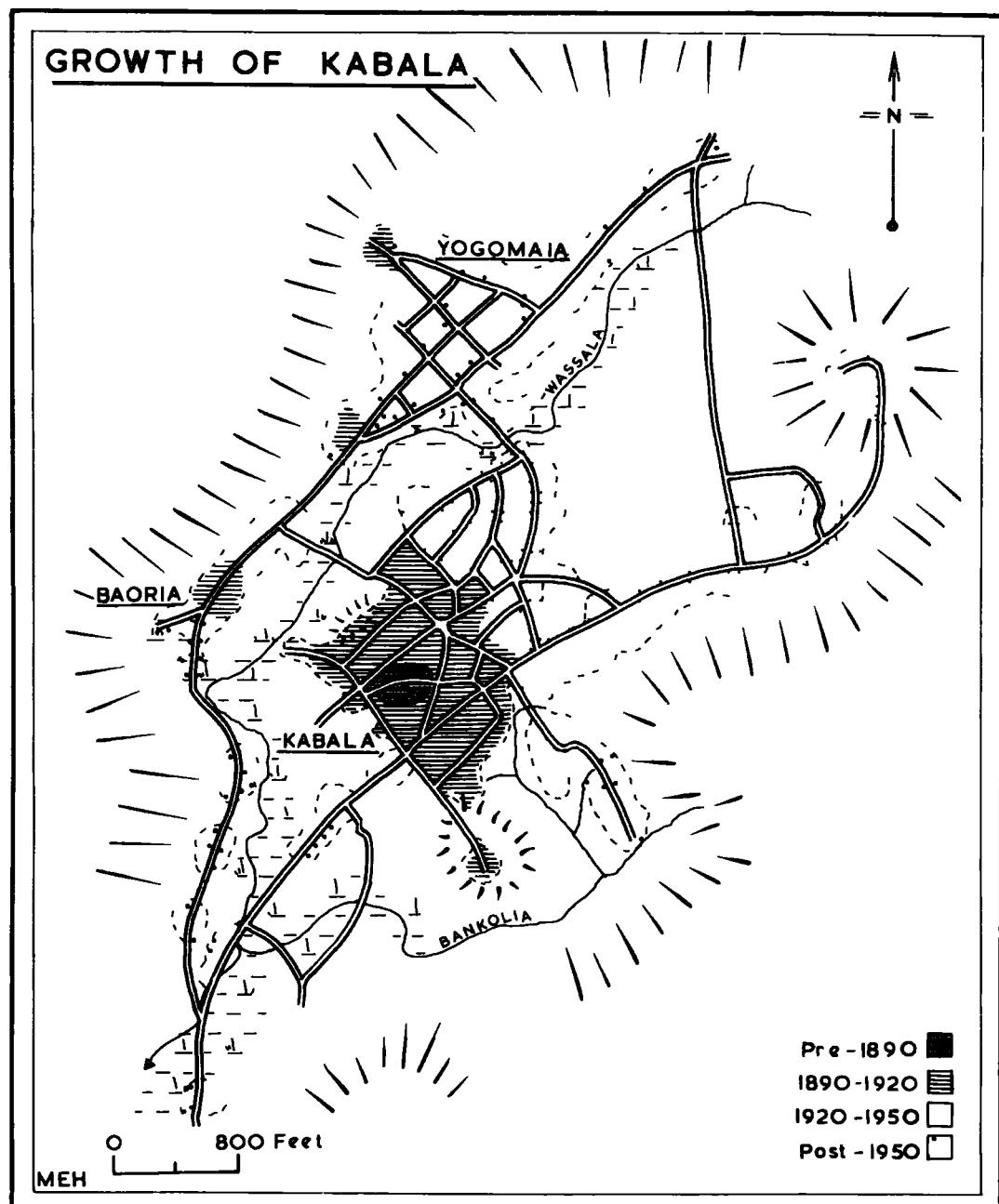


Fig. 11.1. Growth of Kabala.

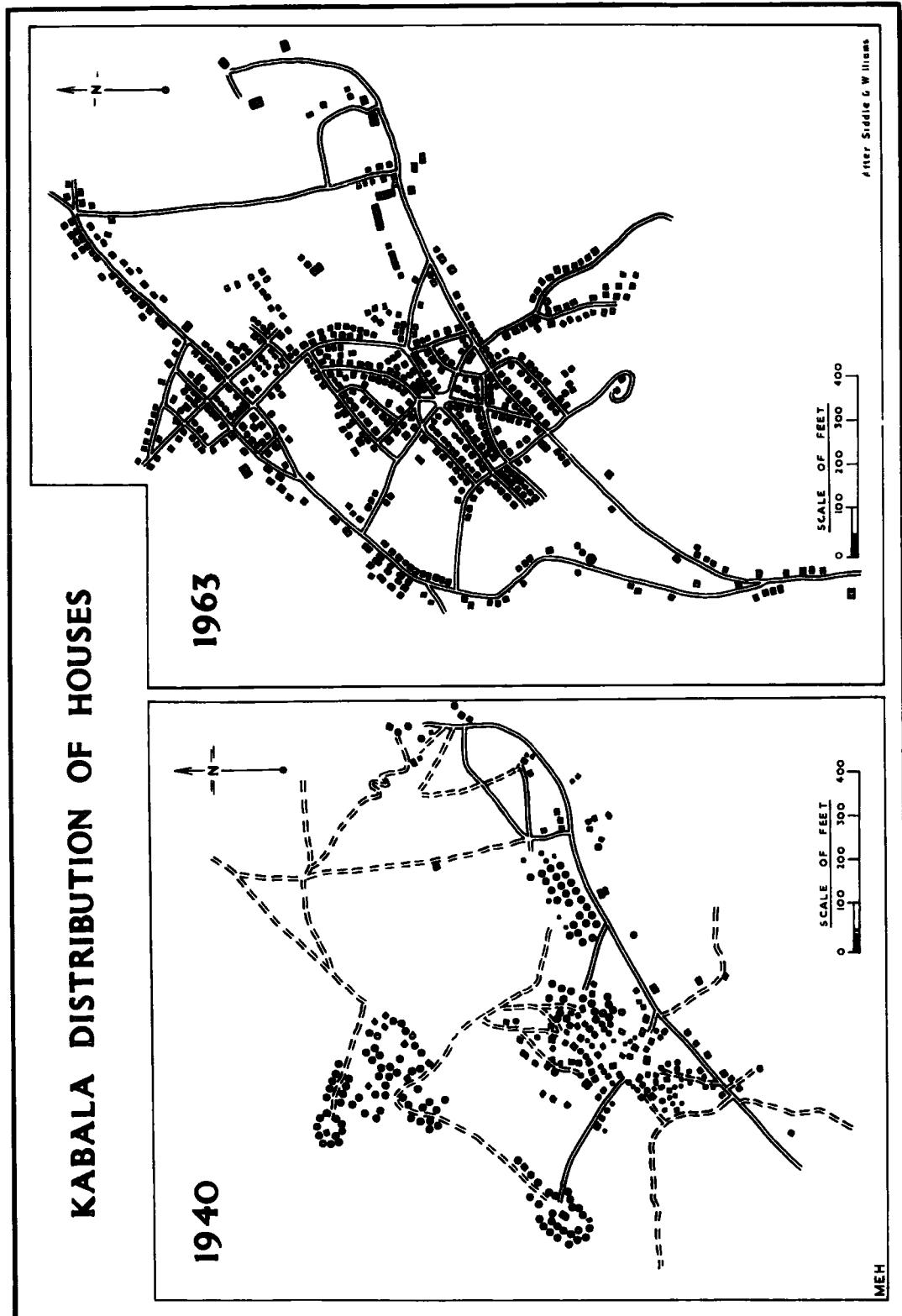


Fig. 11.2. Distribution of Houses in Kabala.

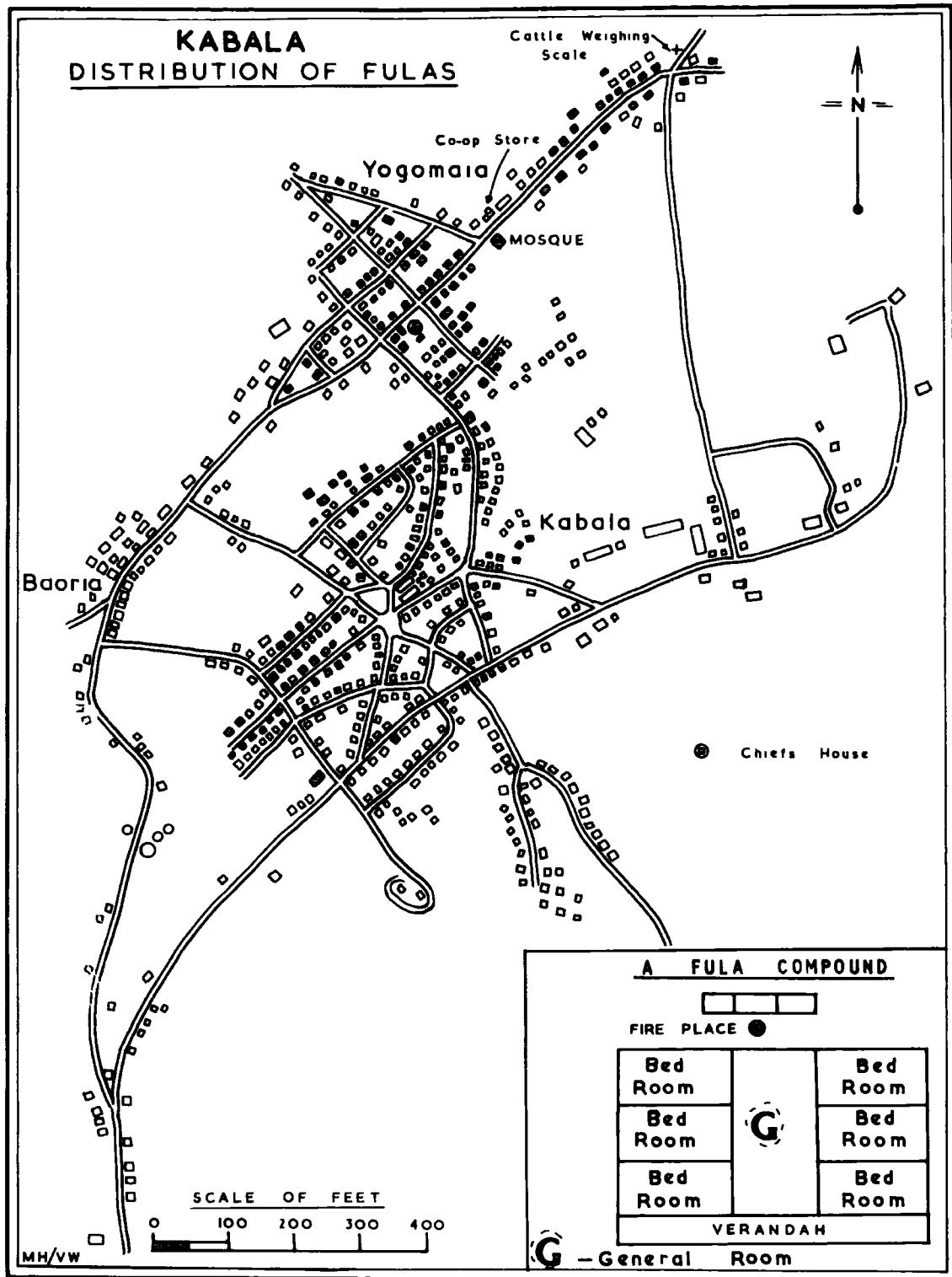


Fig. 11.3. Distribution of Fulas in Kabala.

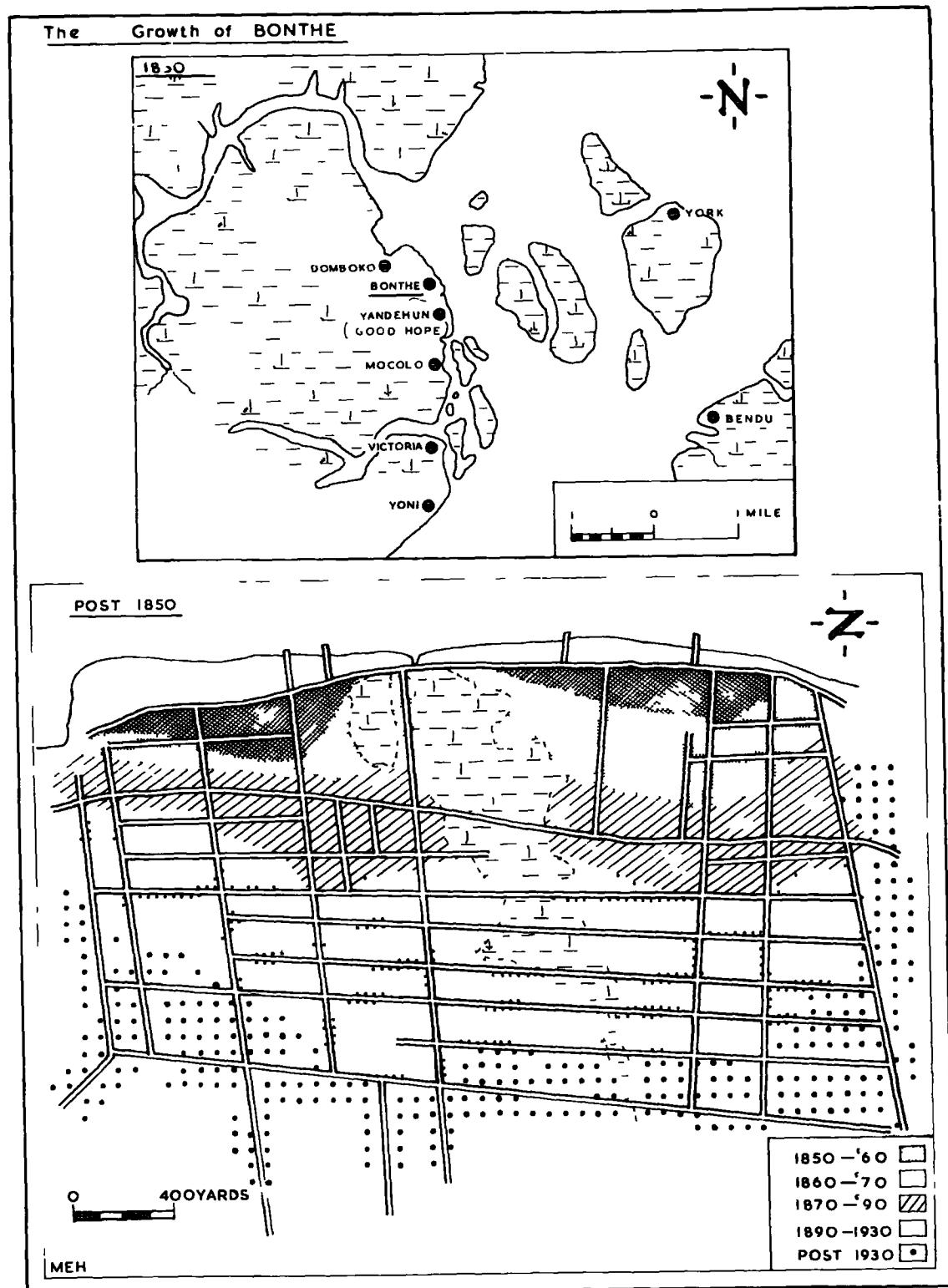


Fig. 12.1. The Growth of Bonthe.

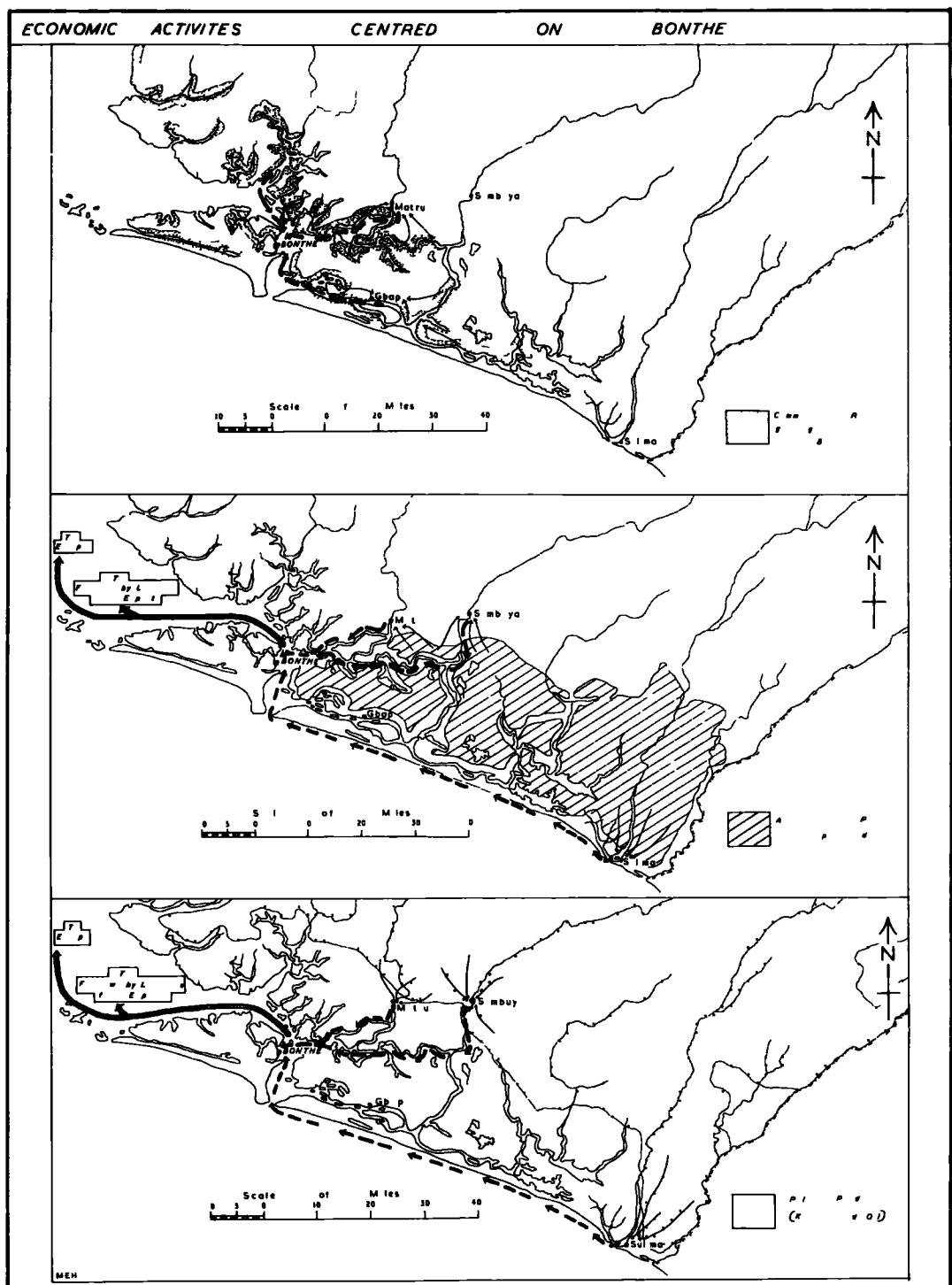


Fig. 12.2. Economic Activities Centred on Bonthe.

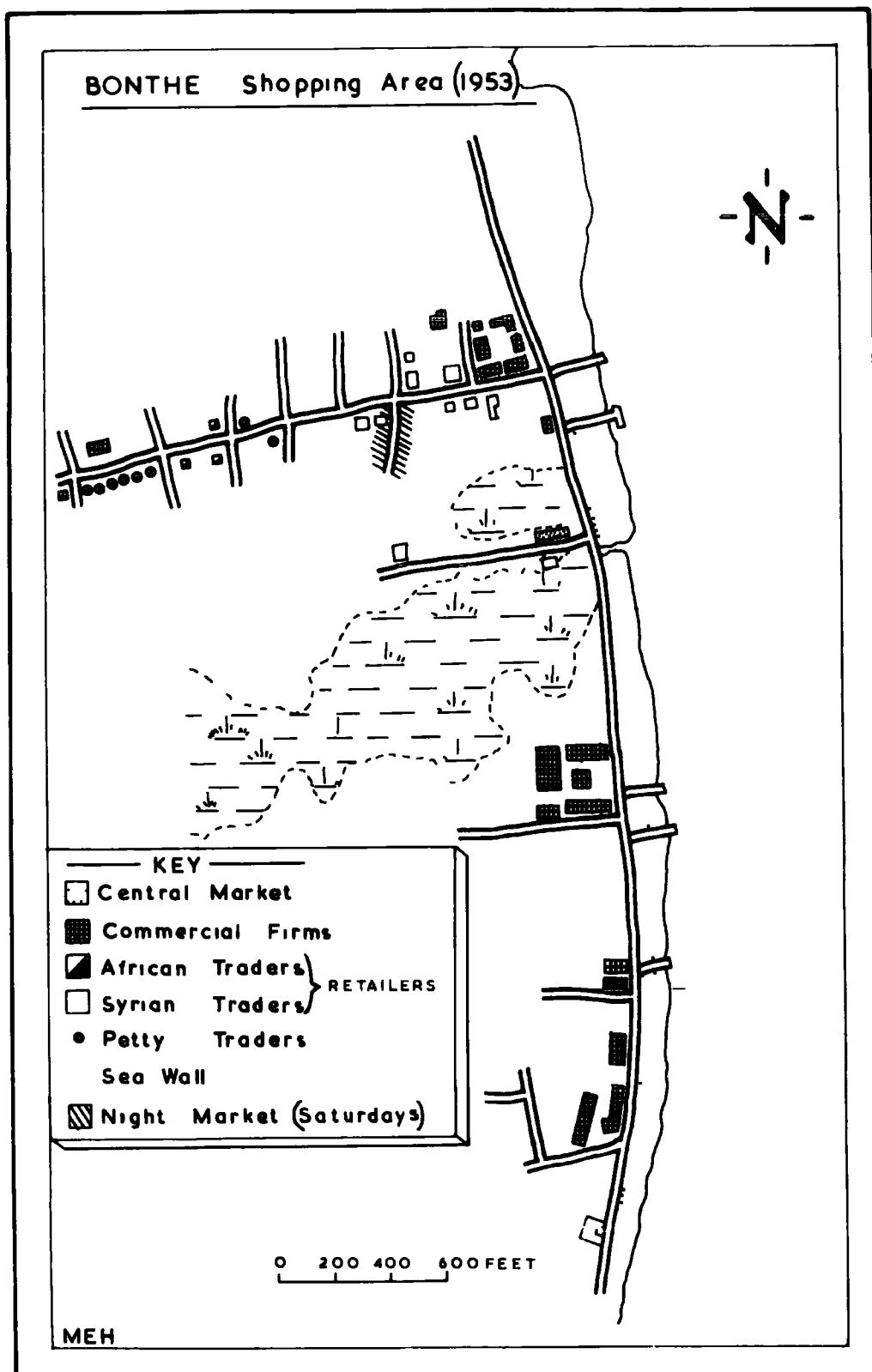
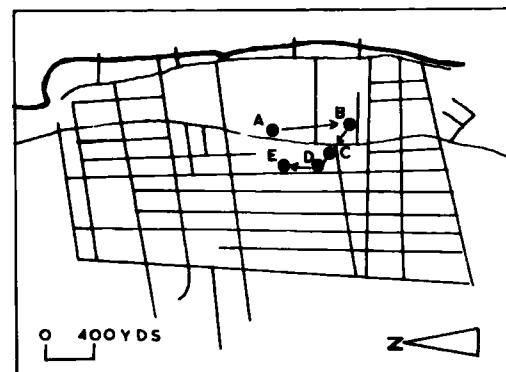
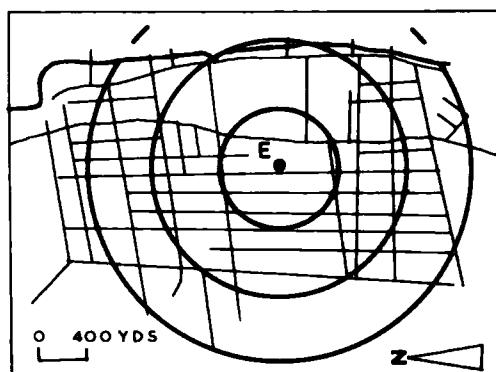
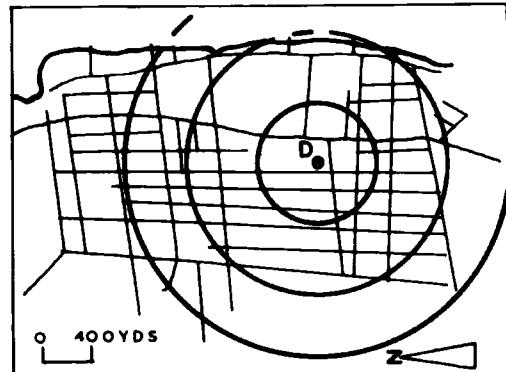
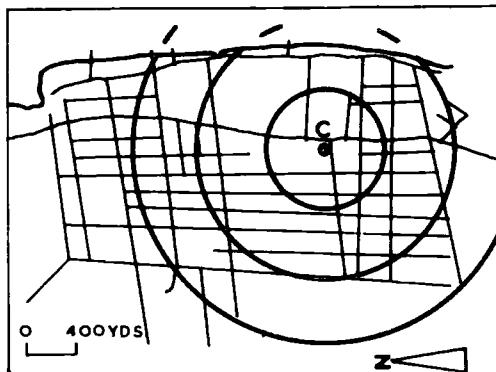
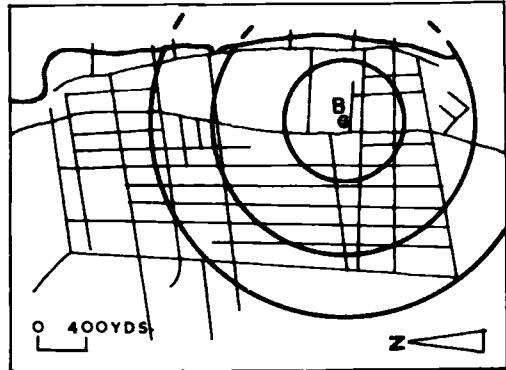
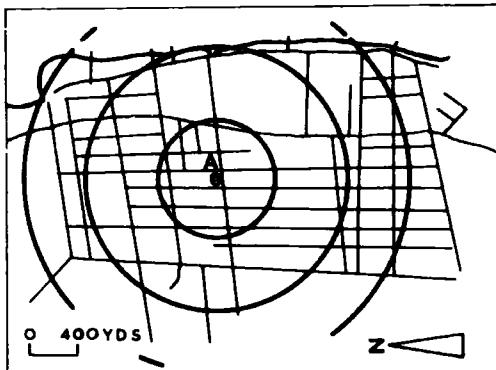


Fig. 12.3. Bonthe, Shopping Centre, 1953.

BONTHE Changing Positions of the Most Important Bar



MEH

A = Johnson's Bar
D = Tucker's Bar

B = Baimba's Bar
E = Wangle's Bar

C = Barnette's Bar
Isolines at 500 yards Interval

Fig. 12.4. The Changing Positions of the Most Important Bar in Bonthe.

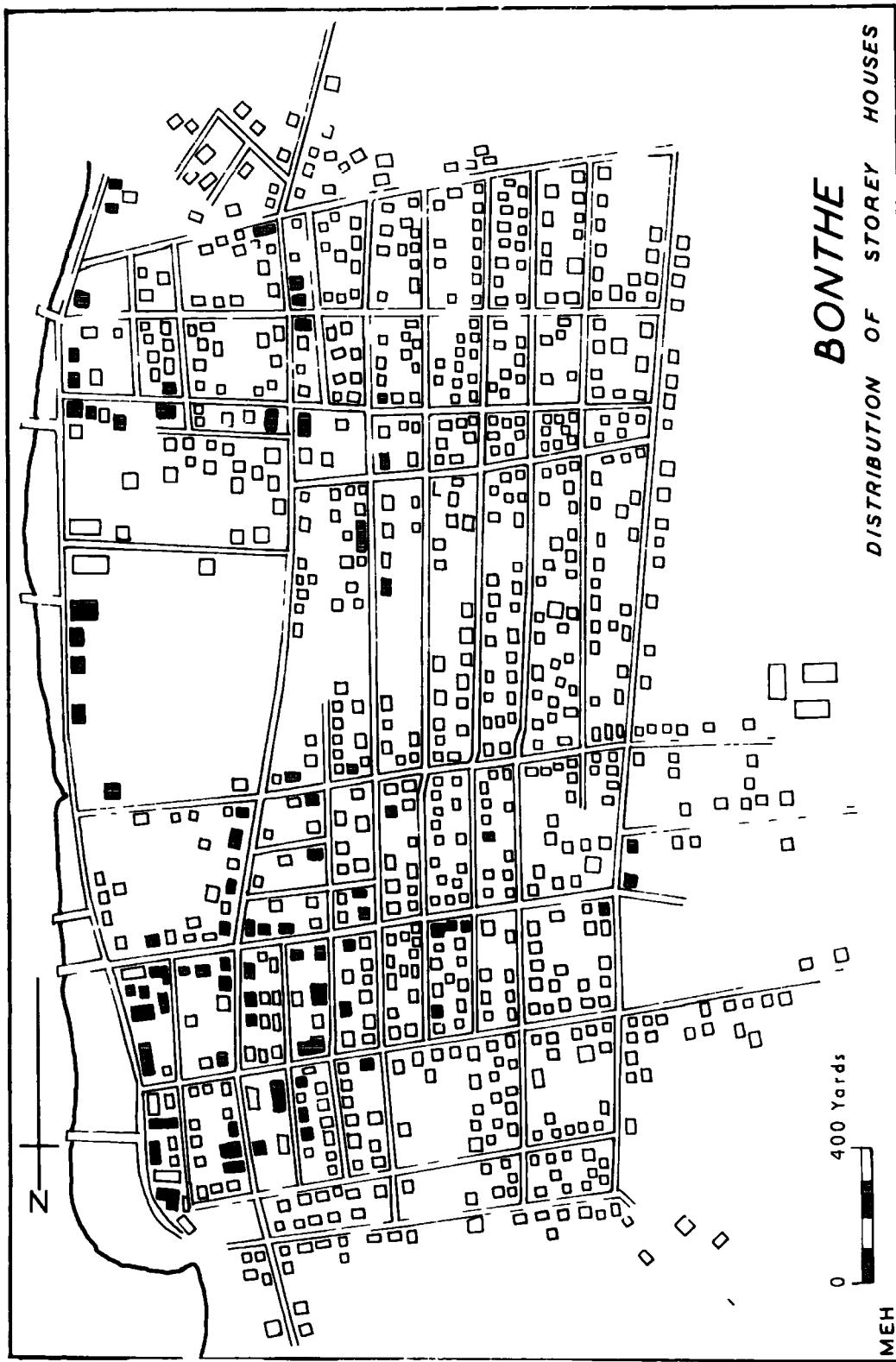


Fig. 12.5. The Distribution of Storey Houses in Bonthé.

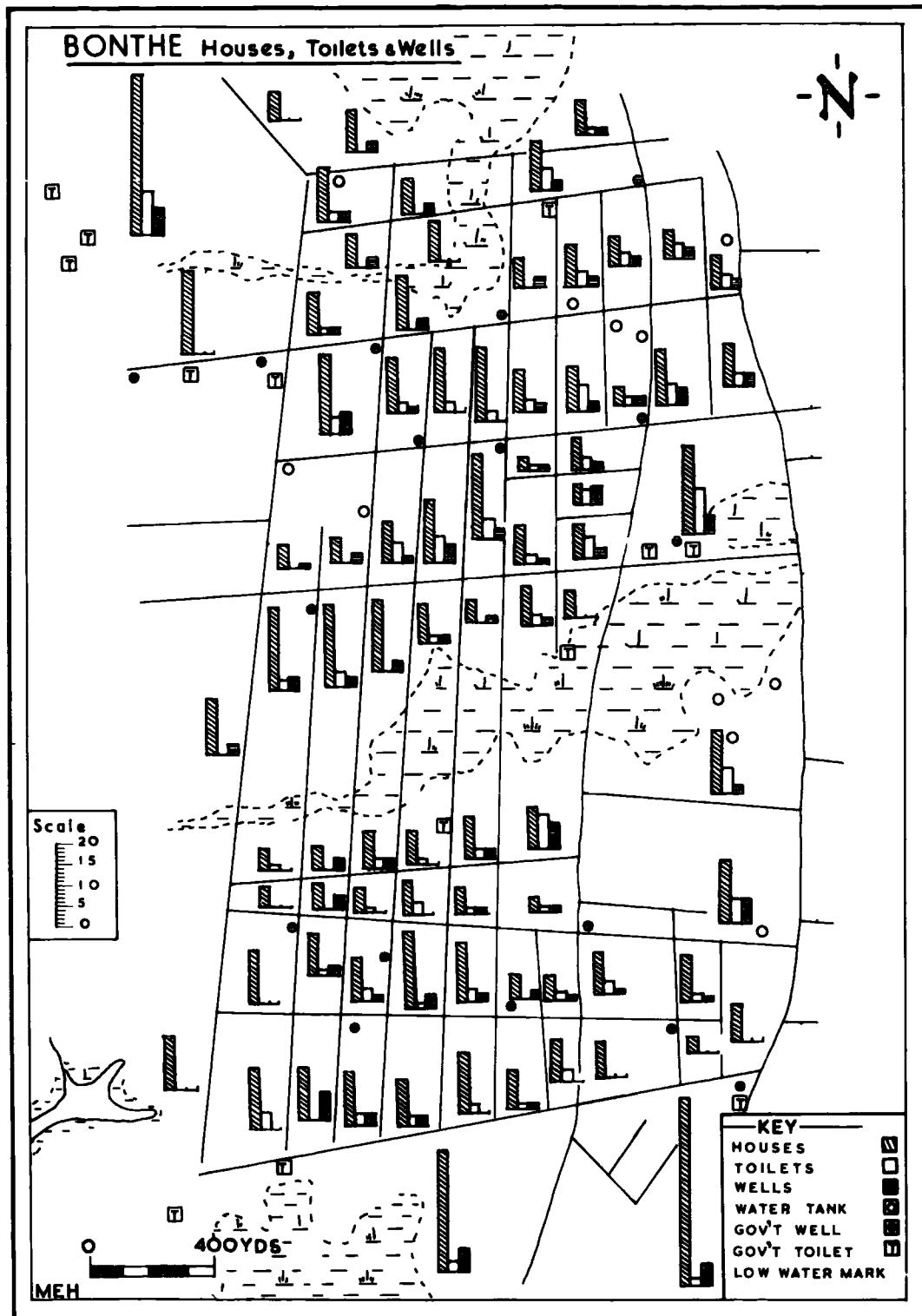


Fig. 12.6. The Relationship Between Houses, Toilets and Wells in Bonthe (from Cadastral Sheets).

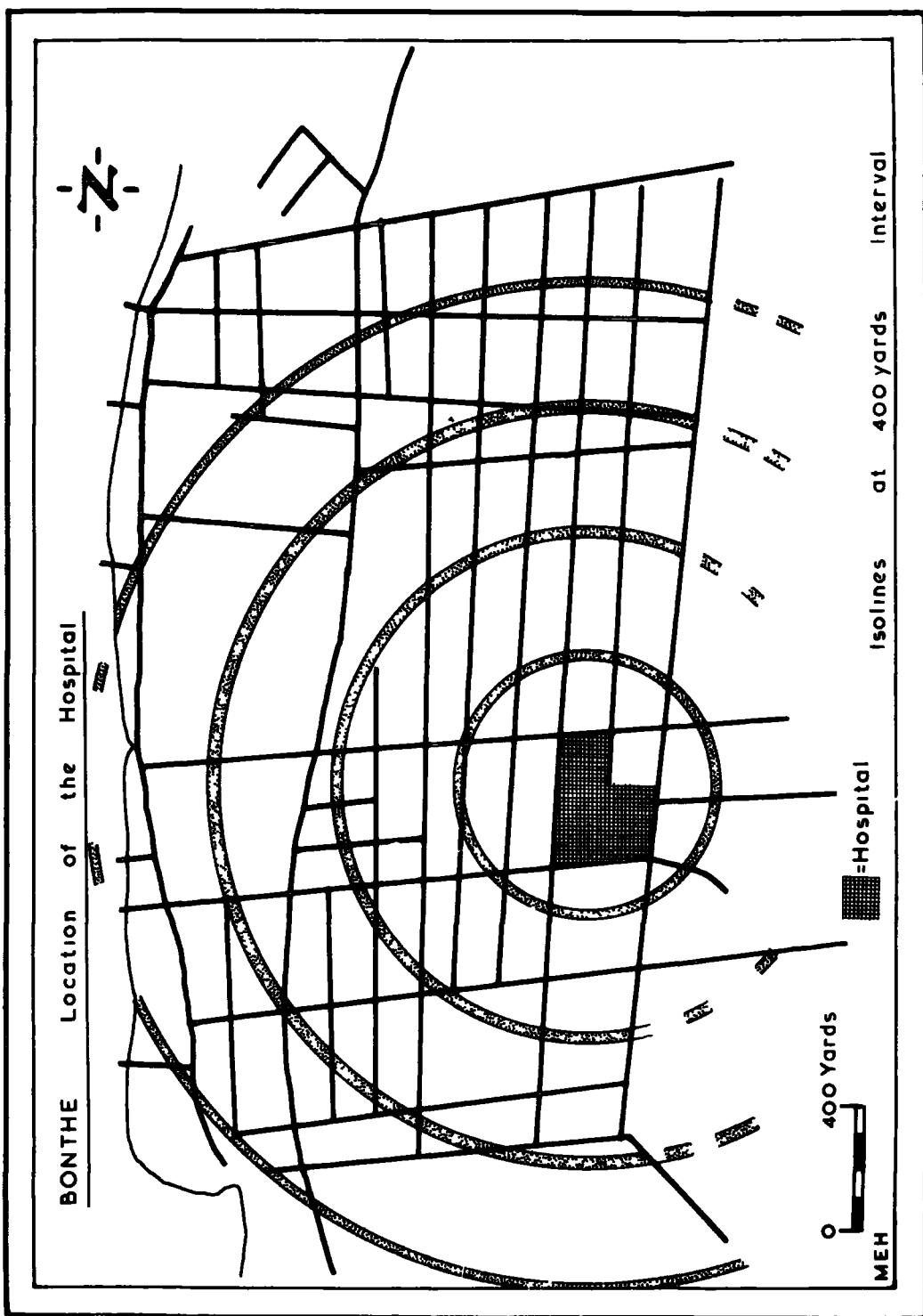


Fig. 12.7. The Location of the Hospital in Bonthe.

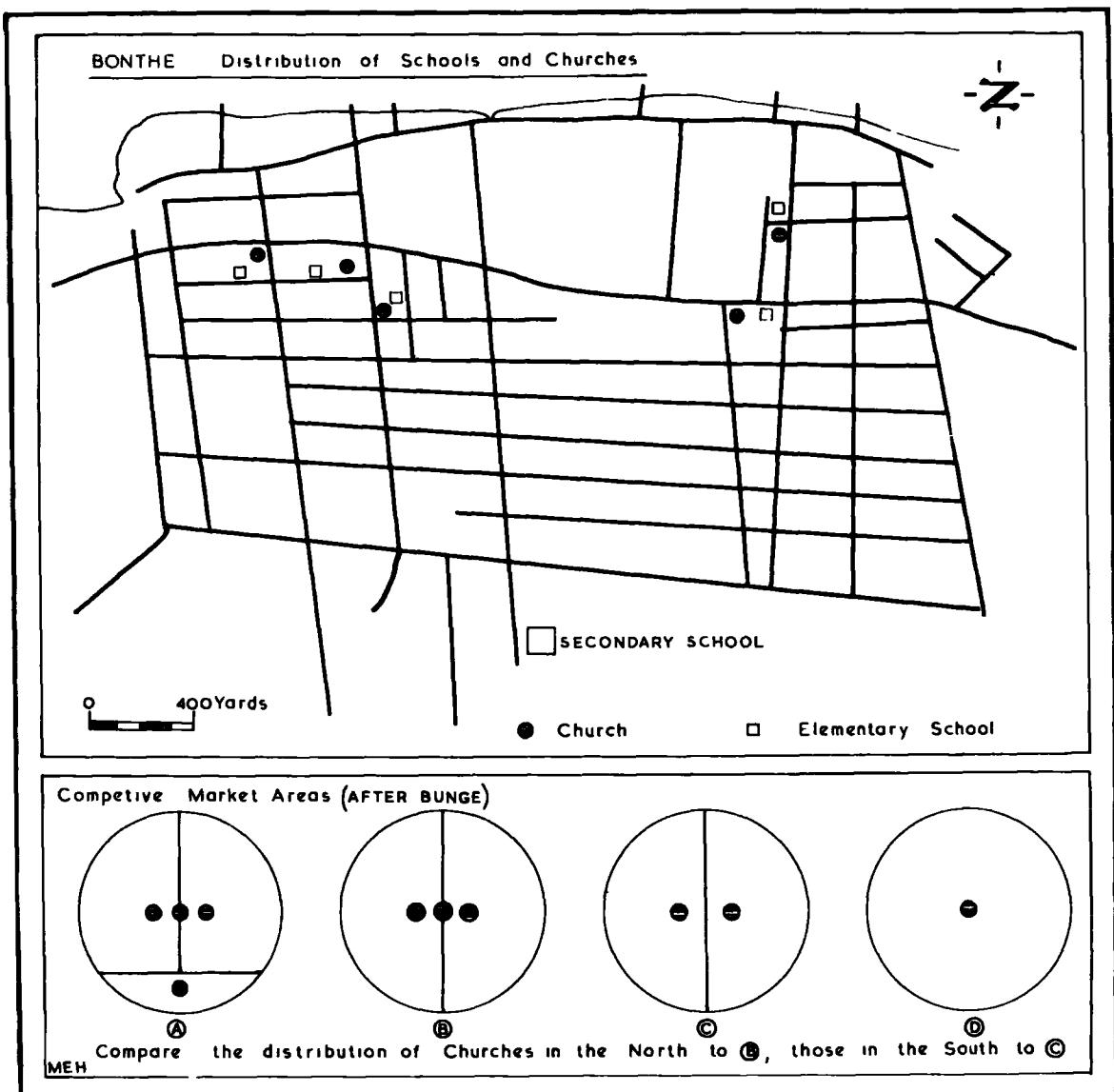


Fig. 12.8. The Distribution of Schools and Churches in Bonthe.

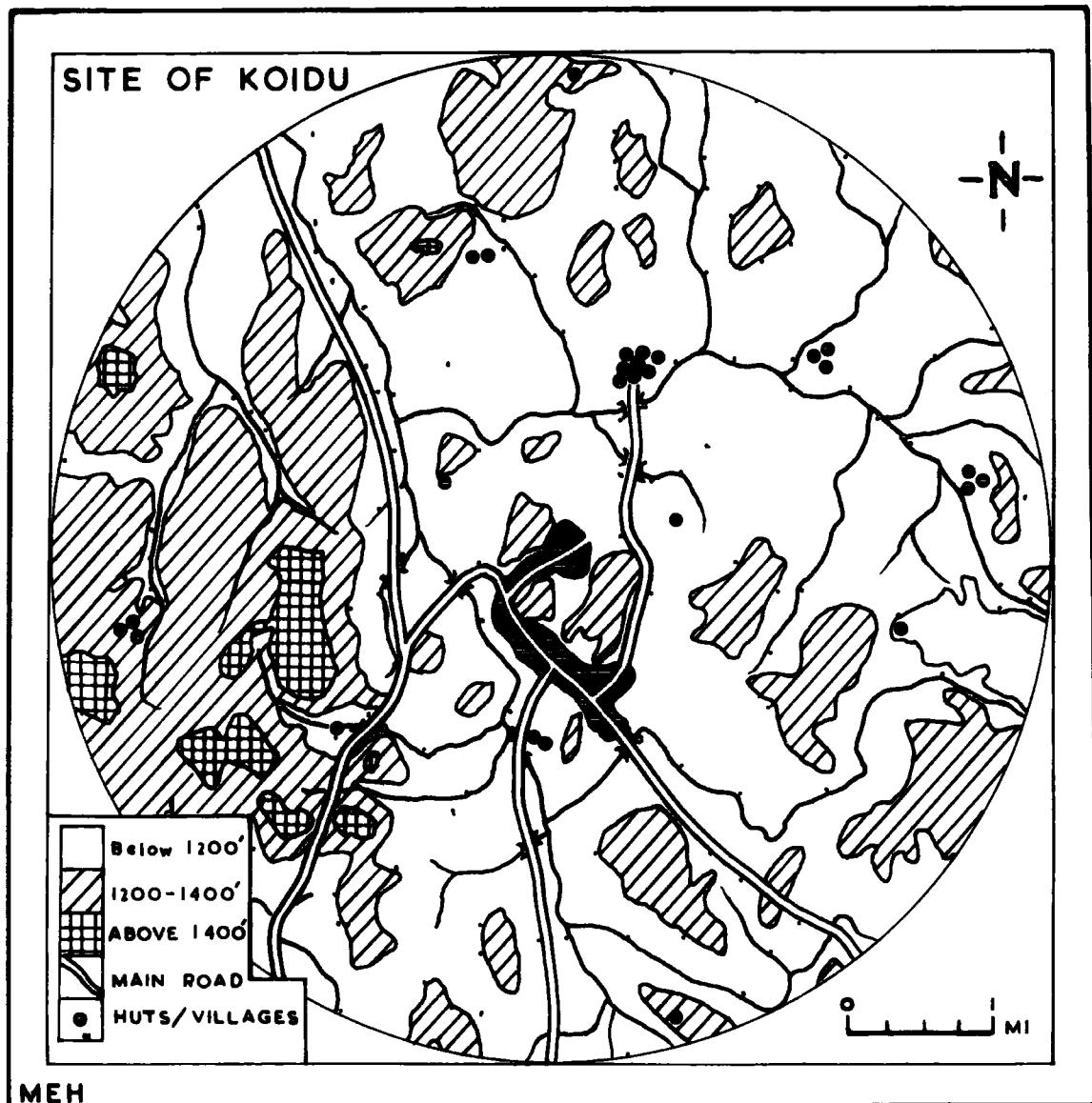


Fig. 13.1. Site of Koidu.

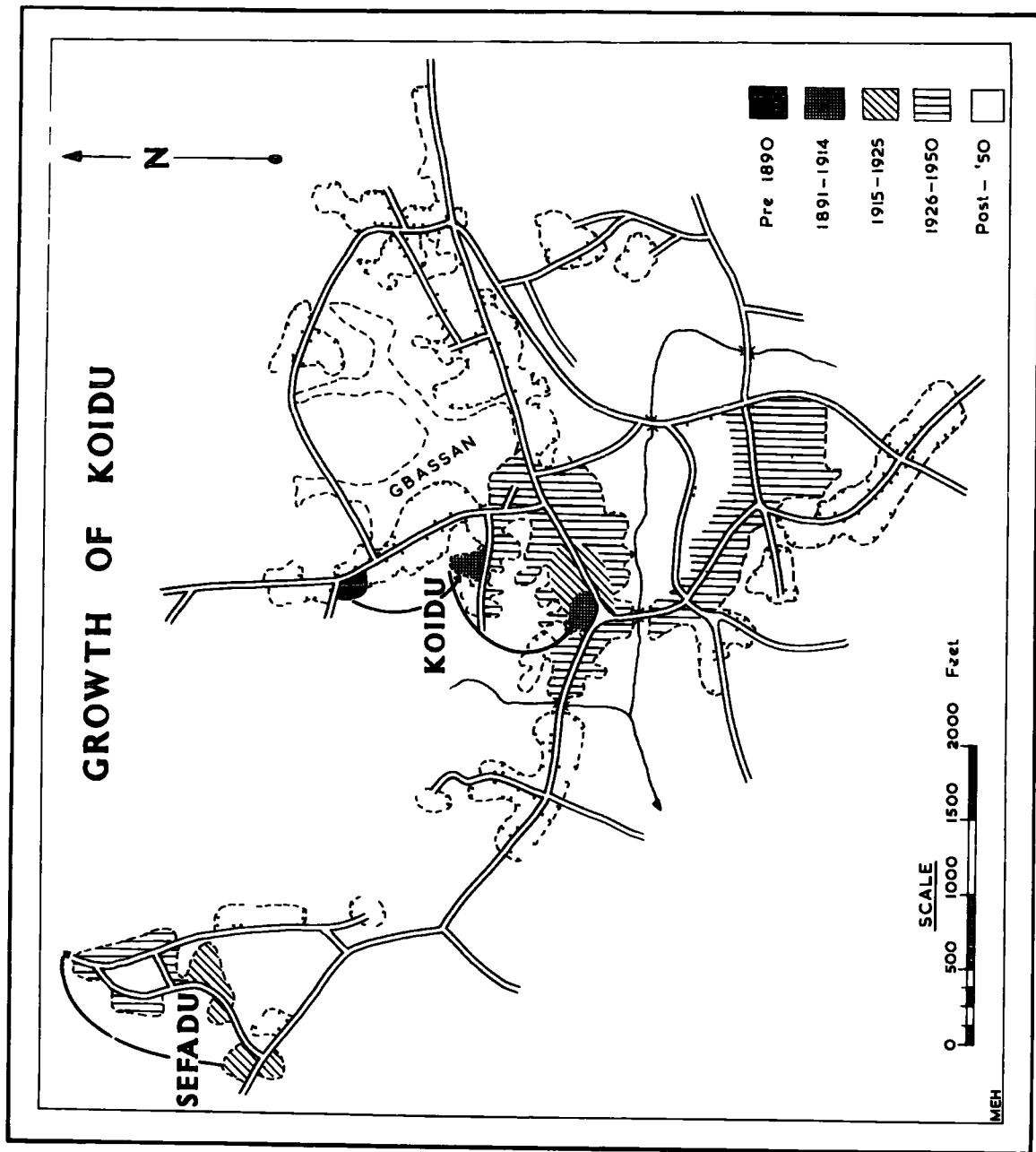


Fig. 13.2. Growth of Koidu-Sefadu.

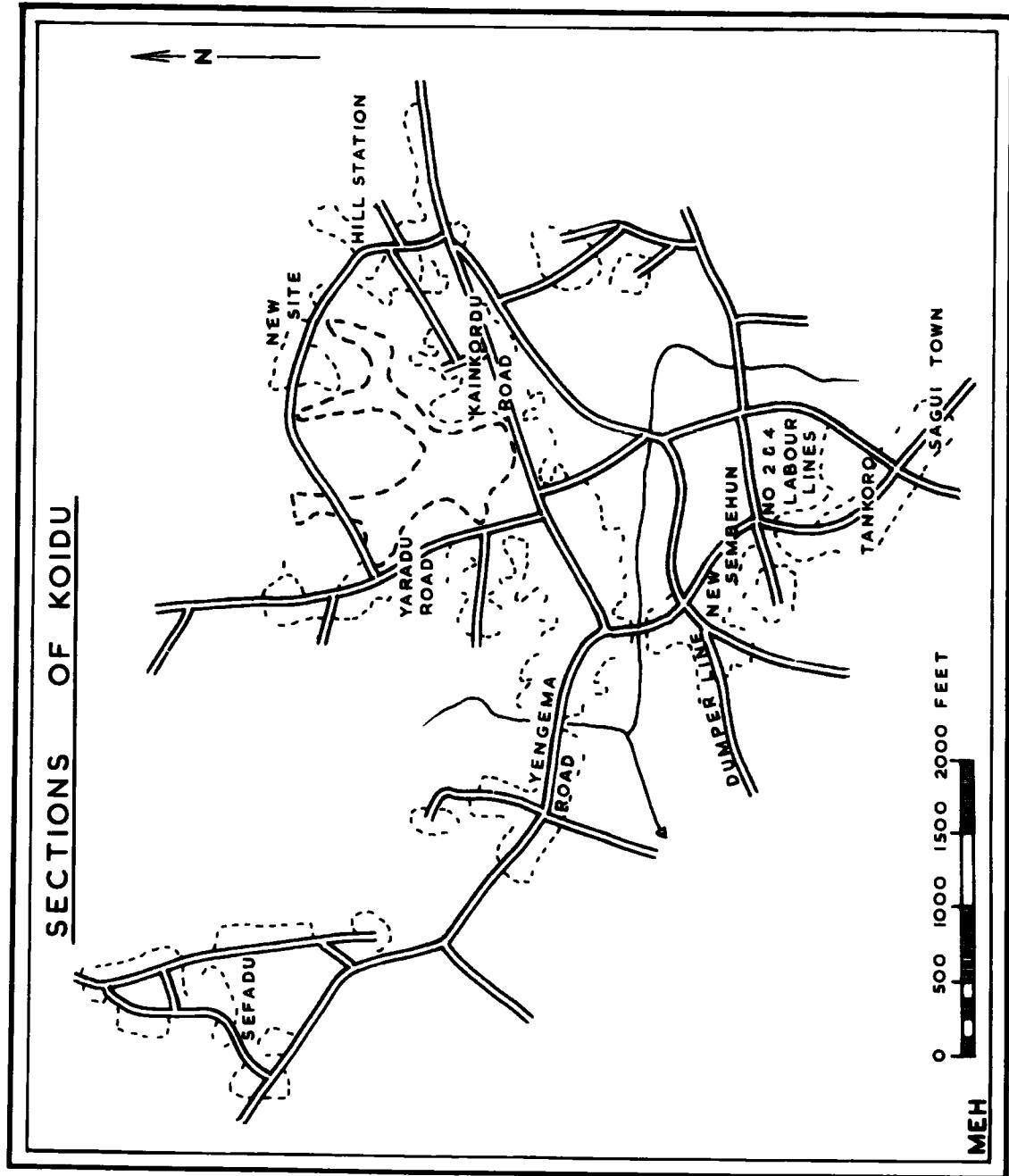


Fig. 13.3. Sections of Koidu.

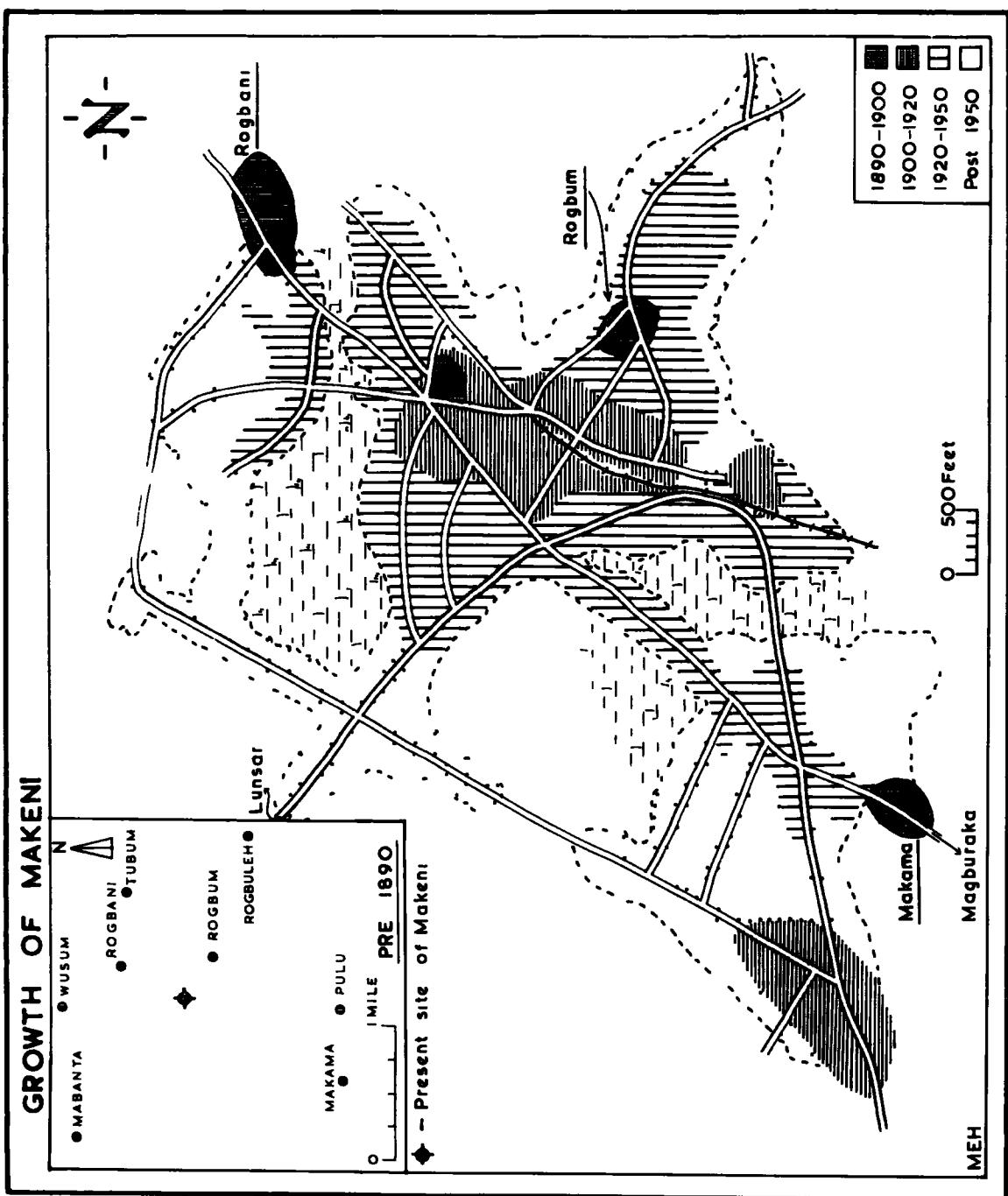


Fig. 14.1. Growth of Makeni.

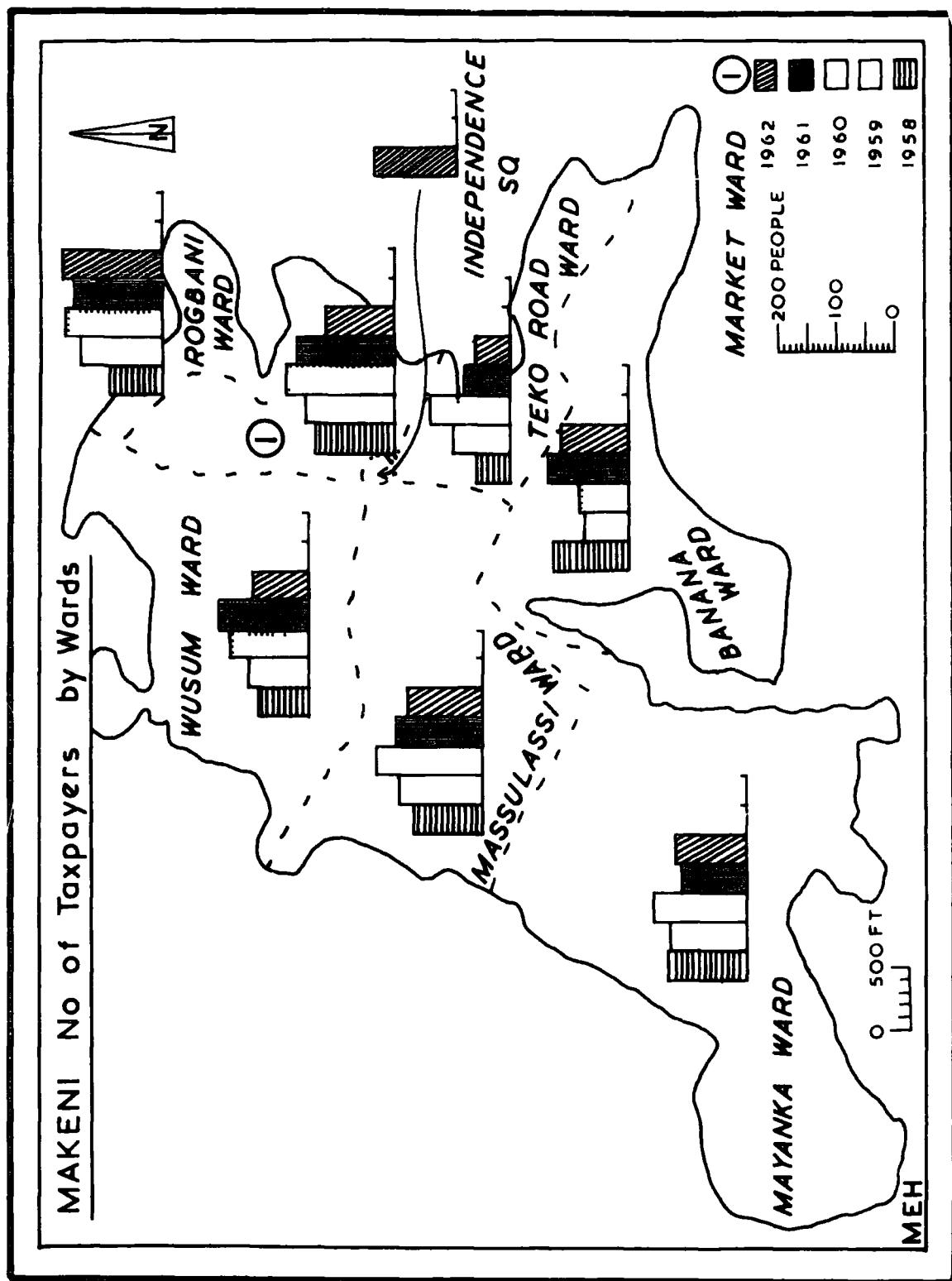
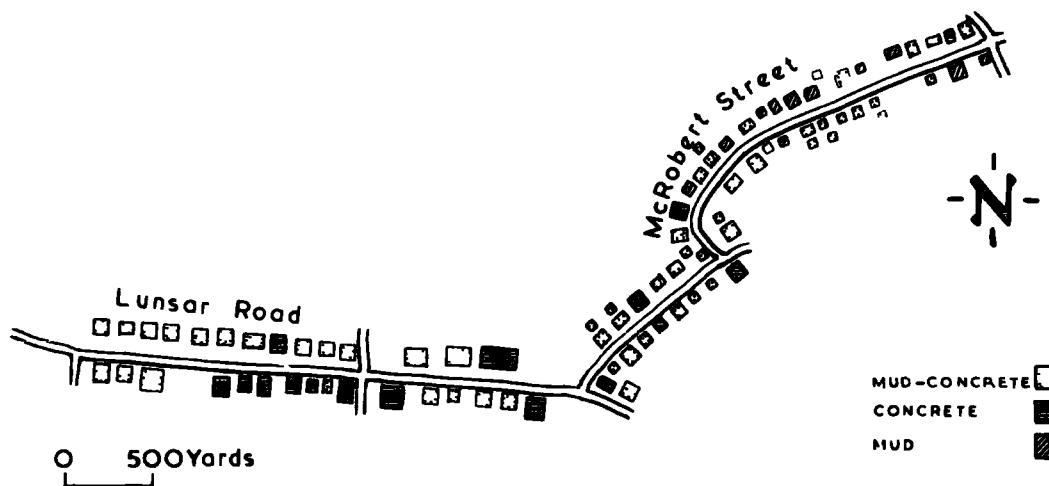


Fig. 14.2. Makeni: Number of Taxpayers by Wards, 1958-1962.

SECTION OF MAKENI SHOWING

WALL TYPES



ROOF TYPES

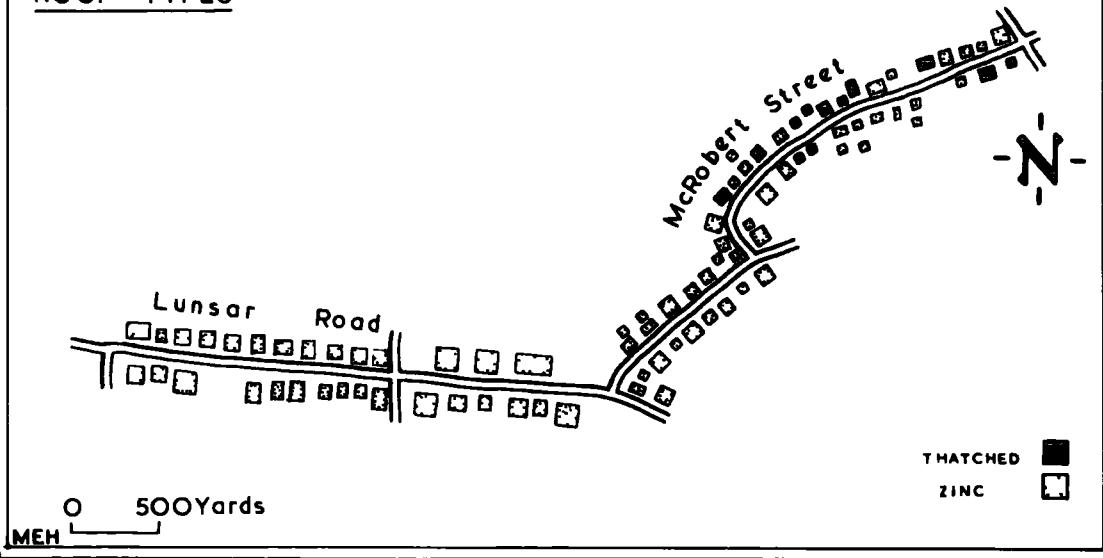


Fig. 14.3. A Section of Makoni Showing Wall and Roof Types.

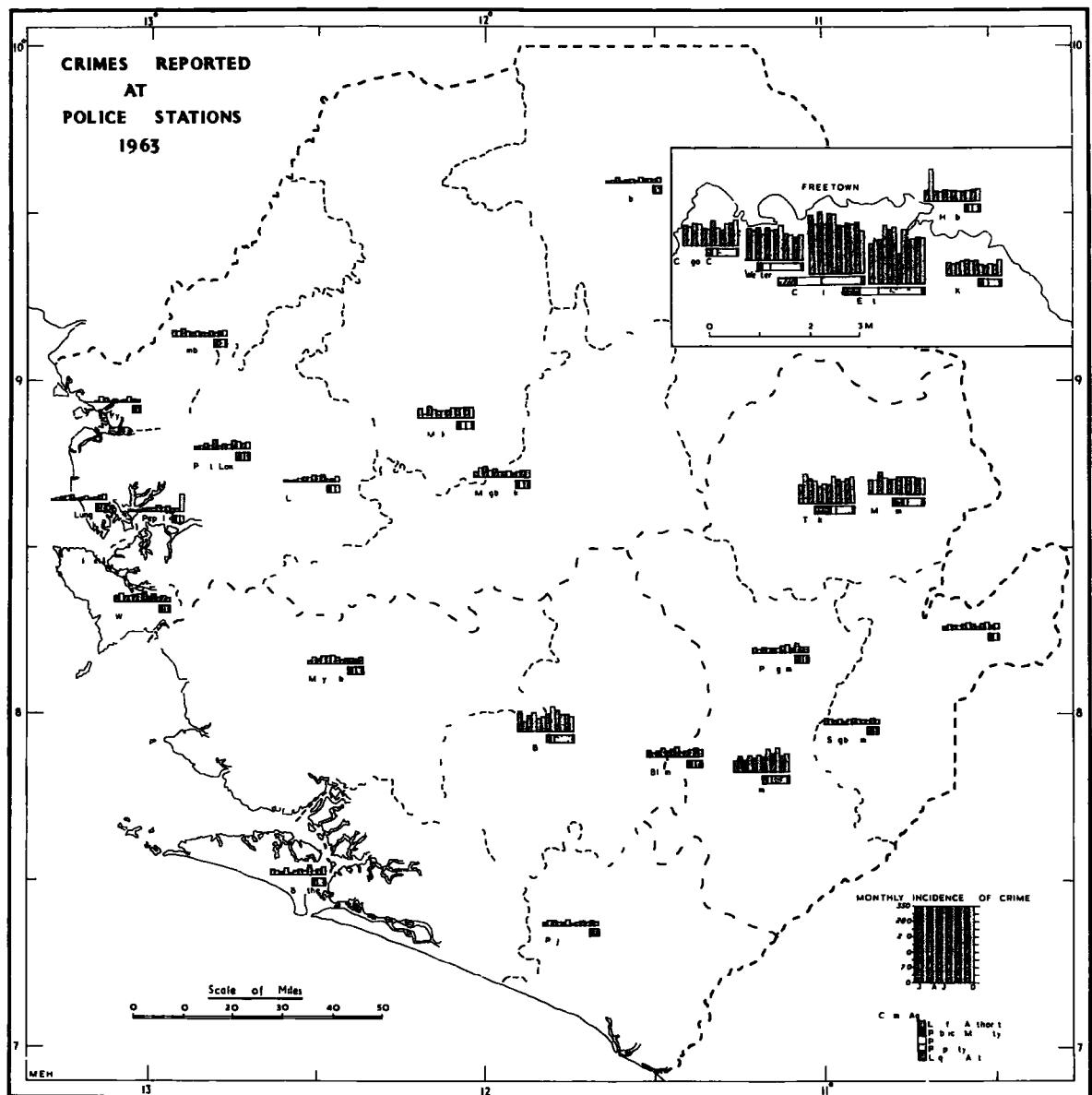


Fig. 15.1. Crimes Reported at Police Stations, 1963.

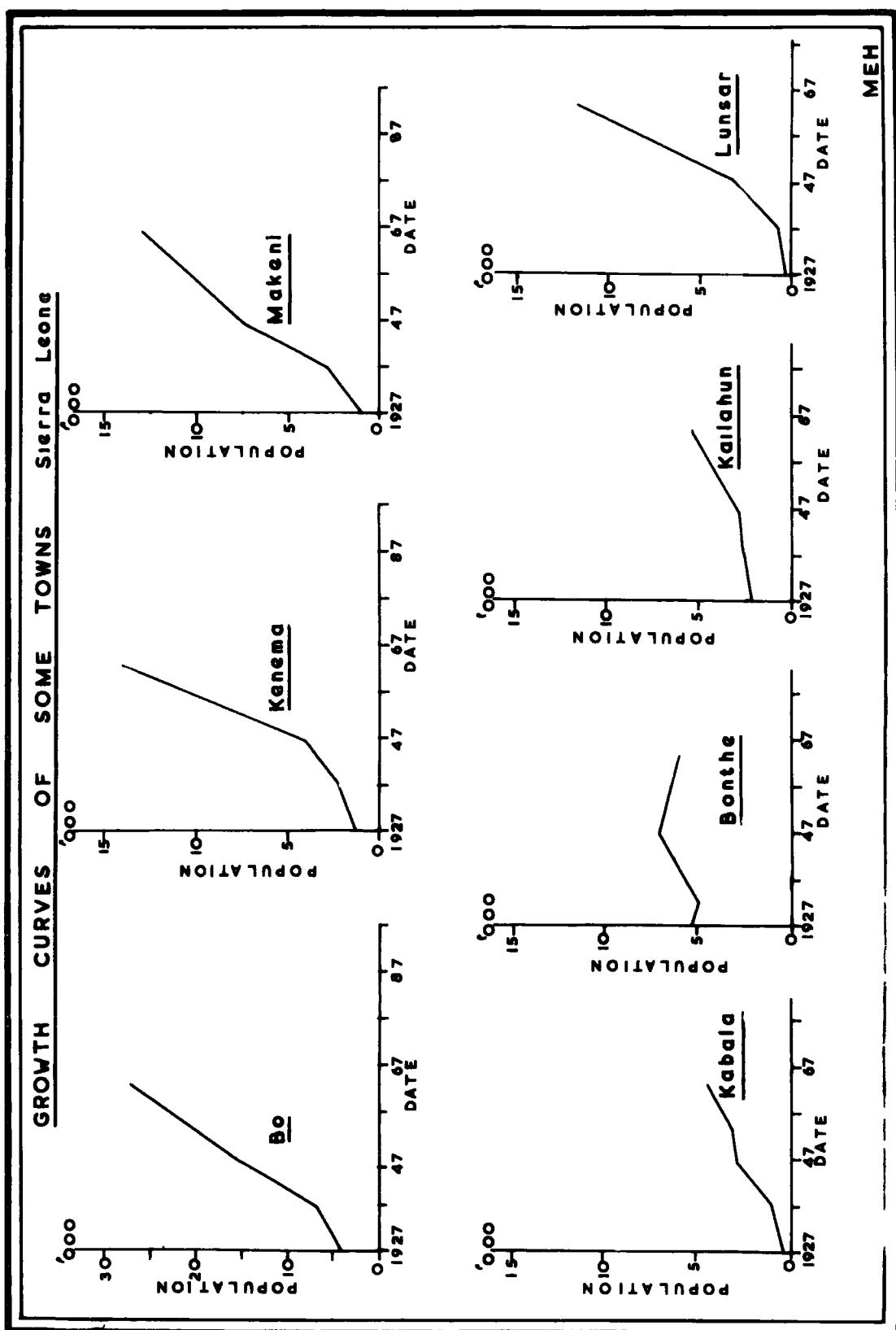


Fig. 16.1. Growth Curves of Some Towns in Sierra Leone.

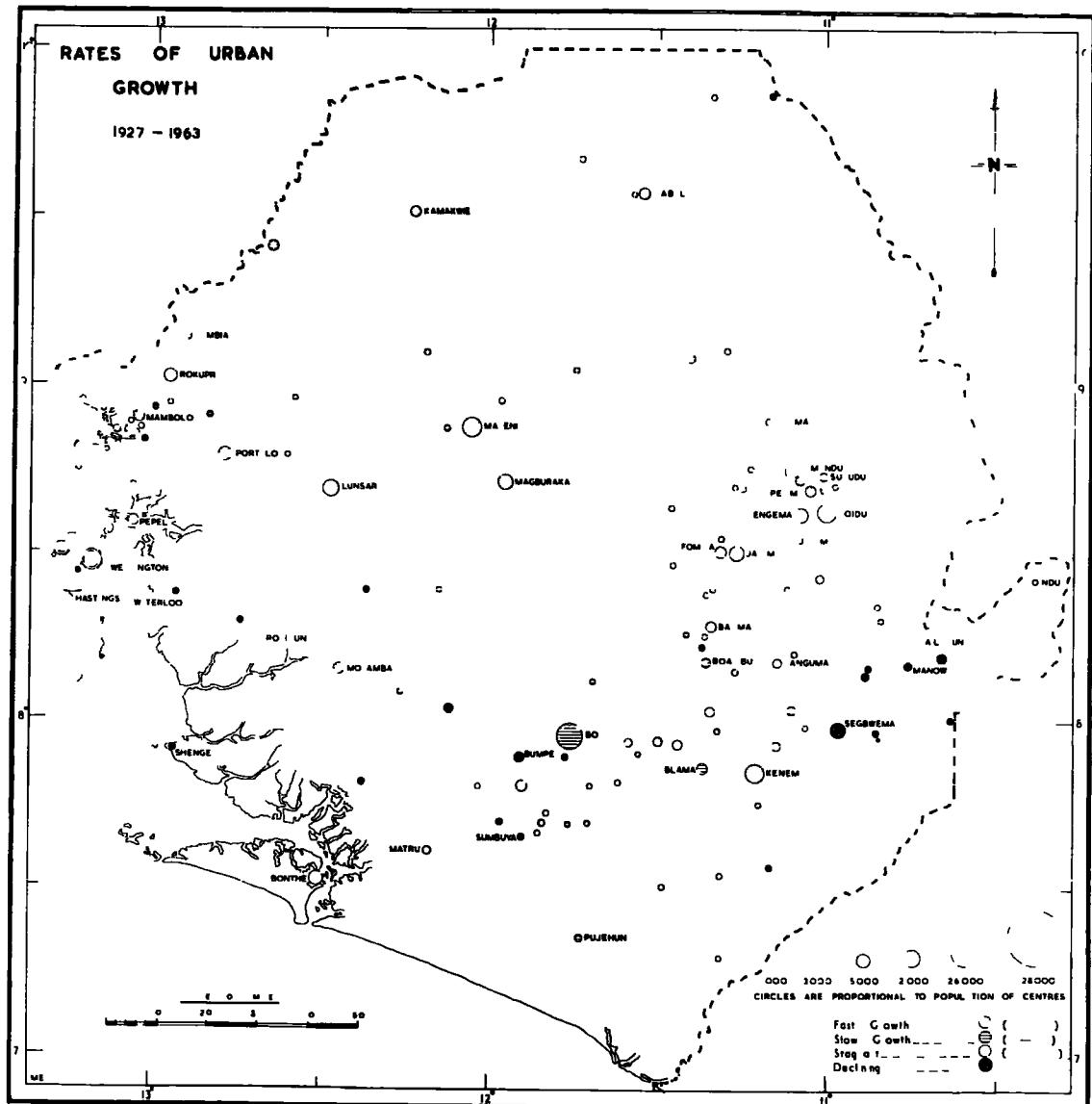


Fig. 16.2. Rates of Urban Growth, 1927-1963.

A P P E N D I C E S

(a)

POPULATION OF SI LISA LOKO TOWNS (1927 ESTIMATES AND CENSUS
APRIL 1963)

RANK	TOWN	CIV. DIVISION	POPULATION 1927	POPULATION 1963
1.	Freetown		55,359	127,917
2.	Bo	Yakulu	5,781	26,611
3.	Kenema	No. 1200	1,200	13,246
4.	Kissy	I.R. Area	4,301	15,143
5.	Makemba	Bombali Sector	1,000	12,304
6.	Gumbe	Marampa-Lessos	78	12,132
7.	Koidu	Gbense	96	11,706
8.	Yangema	11th Kono	144	7,313
9.	Wilberforce	W.R. Area	4,650	6,950
10.	Regbulaka	Thoholia	348	6,371
11.	Siehema	Jaiama	2,700	6,258
12.	Bonthe	C.U.T.C.	5,400	6,230
13.	Jetemba	N.Yema	864	6,064
14.	Port Loko	Laforia	2,700	5,809
15.	Yolumbulu	Sando	978	5,469
16.	Kailahun	Luava	2,772	5,119
17.	Barna	Wendo	360	5,280
18.	Blama	Small Bo	1,812	5,073
19.	Wellington	W.R. Area	3,700	4,958
20.	Reima	Kamara	126	4,625
21.	Kaala	Wira Wara Yagala	402	4,610
22.	Tovambu	Kalvamba	1,470	4,564
23.	Muray Town	W.R. Area	2,540	4,395
24.	Boajilu	Simbala	1,998	4,333
25.	Rokupr	Magbema	612	4,151
26.	Pepel	Loko Masama	72	3,793
27.	Kambia	Magbema	1,470	3,700
28.	Jaiama	Fins Yoro	1,794	3,616
29.	Mambolo	Nambolo	1,152	3,595
30.	Kankwile	Sela Lumbé	124	3,572
31.	Rotifunk	Bumpe	1,503	3,520
32.	Fomata	Gorama Mende	48	3,385
33.	Valello	W.Rural Area	2,000	3,215
34.	Panguma	Lover Bimbiara	2,112	3,100
35.	Sukudu	Kamara	798	3,097
36.	Hastings	" " " " Area	1,000	3,022
37.	Tomballu	Kamara	1,008	2,955
38.	Lirgo	Nongowa	3,312	2,740
39.	Yamandu	Brioma	198	2,910
40.	Matiu	Jong	502	2,909
41.	Hengha	Nongowa	1,242	2,895
42.	Gondama	Tikmiko	58	2,861
43.	Tombo	Nambolo	960	2,837
44.	Baoma	Baoma	1,440	2,722

RANK	TOWN	CIV. EDG.	POPULATION OF TOWN	
			1927	1963
45.	Pendembu	Upper Bambara	36	2,696
46.	Kasurie	Samu	774	2,585
47.	Fajindu	No er Paal la	1,062	2,559
48.	Sedu	Nimi Koro	216	2,507
49.	Masinghi	Munike	264	2,425
50.	Iano	Dasse	2,058	2,286
51.	Ceremim	Bromo	1,116	2,266
52.	Gandorlum	Ghense	1,086	2,207
53.	Iunei	Kaffu Bullom	1,230	2,170
54.	Korindu	Kissi-Keng	486	2,130
55.	Tikalata	Hew	858	2,118
56.	Kukuna	Bromara	780	2,038
57.	Pujehun	Pang-Kahonde	690	2,034
58.	Goderich	W. Sinal Area	2,000	2,031
59.	Lumley	W. Fural Area	1,900	2,015
60.	Bilo	Loko Fassia	500	1,998
61.	Gichun	Lawa	2,094	1,975
62.	Kerma	Caro	1,212	1,853
63.	Janow	Pejewa	3,530	1,841
64.	Bumpe	Rumpe	2,952	1,812
65.	T-faya	Sando	96	1,803
66.	Solina	Lugbu	100	1,779
67.	Daru	Upper Jawi	2,250	1,753
68.	Nobai	Jendu	1,02	1,653
69.	Bromo	Kandu La mama	176	1,610
70.	Konta	Gorama Mende	384	1,581
71.	Kalangba	Loko Massana	150	1,580
72.	Yiffin	Hieni	258	1,576
73.	Dorigboya	Niye Yema	186	1,550
74.	Belli	Mambolo	240	1,539
75.	Gberia Timbeko	Sulima	1,000	1,532
76.	Ziamli	Maipele	1,305	1,524
77.	Tokporubu	Lower Bambara	158	1,524
78.	Gendema	Wando	176	1,509
79.	Gihindu	Konghoro	86	1,495
80.	Binkolo	S-froko Limba	900	1,482
81.	Bellima	Mendu	1,221	1,471
82.	Yeliba	Samu	87	1,464
83.	Bwedu	Kiesi Tong	1,230	1,438
84.	Potoru	Burru	936	1,437
85.	Levuma	Kaijin Lappiama	74	1,404
86.	Serelu	Bimpé	936	1,400
87.	Gbambarudu	Gando	430	1,387
88.	Kyclom	Sam	930	1,381
89.	Yonibana	Yeri	2,670	1,377
90.	Tungie	Goroma Mende	1,644	1,371
91.	Tikonko	Tokonko	1,842	1,362
92.	Benumbu	Pejewa	1,274	1,361
93.	Korj bundu	Jaiema Bongor	822	1,350

A P P E N D I C E S Contd.

RANK	TOWN	CHIEFTAIN	POPULATION OF TOWN	
			1927	1963
92.	Njamenya	Bagbo	-	1,348
95.	Bumpe	Yimi Koro	580	1,332
96.	Cheenti	Lolo Lassama	498	1,320
97.	Kolente	Mambolo	380	1,300
98.	Rokel	Mambolo	490	1,296
99.	Yambama	Luebu	900	1,279
100.	Iakoth	Mambolo	216	1,262
101.	Mango	Bure	1,284	1,262
102.	Gbonkonwaria	Macbella	86	1,251
103.	Gbeworbu	Luewa	79	1,231
104.	Kpetevorma	Lughu	1,248	1,230
105.	Moindu	Wando	174	1,225
106.	Gberia Fotumbu	Sulima	560	1,210
107.	Nyendehun	Luewa	890	1,183
108.	Gbenidembi	Penderbury Gorahun	497	1,182
109.	Yegomata	Senke	740	1,179
110.	Baoma	Koya	1,088	1,174
111.	Sefadu	Goense	220	1,173
112.	Gerehun	Nongova	15	1,172
113.	Kangahun	Kaiyamoa	546	1,167
114.	Bembare	Selenja	372	1,165
115.	Fumbaunda	Kalangsoesora	276	1,161
116.	Kontua	Loko Lassama	384	1,161
117.	Aberdeen	W. Area	2,286	1,159
118.	Gbanbgpatok	Ranta	1,308	1,155
119.	Konakriidee	Keffu Bulloum	30	1,146
120.	Kponima	Jaiama Bongor	46	1,144
121.	Gejhema	Tunkia	1,344	1,128
122.	Rochen Kamendo	Yoni	252	1,121
123.	Pendehe	Dema	1,472	1,121
124.	Golu	Baoma	287	1,116
125.	Yiapudu	Saru	370	1,114
126.	Mondema	Goroma Mandie	1,164	1,108
127.	Bradford	Rubbi	2,610	1,106
128.	Bafodea	Tara Wera Bafodea	1,060	1,104
129.	Sandialu	Luewa	816	1,100
130.	Lalehun	Lower Bemoara	1,244	1,097
131.	Koi	Nongowa	-	1,088
132.	Upper Seima	Lughu	1,272	1,084
133.	Gbiris	T. "S. Dibba	576	1,082
134.	Songo	Koya	1,500	1,062
135.	Bakelimru	Mambolo	460	1,060
136.	Baoma	Luewa	386	1,059
137.	Ghama	Jaiama Bongor	480	1,058
138.	Mansundu	Sando	550	1,049
139.	Bagliema	Sando	487	1,047
140.	Niawama	Nimi Yema	240	1,045
141.	Babera	Loko Lassama	180	1,042

RANK	TOWN	CHIEFDOM	POPULATION OF TOWN	
			1927	1963
142.	Tessungbo	Ghinte Makari	456	1,038
143.	Bendu	Tawel	1,776	1,027
144.	Kat'e	Kegbore	96	1,023
145.	Mino Junction	Noglowa	-	1,017
146.	Boroma "	Upper Kambura	1,152	1,017
147.	Bondayilahun	Gurama "ende	-	1,016
148.	Ponduru	Gurama Fendic	386	1,014
149.	Falana	Sulima	1,212	1,013
150.	Katuma	Kambolo	287	1,012
151.	Maletie	Kambolo	150	1,012
152.	Gbalahun	Luawa	888	1,009
153.	Dema	Iando	100	1,001
154.	Plainain	Kagboro	87	1,001
155.	Kambia	Keffu Ballom	187	1,001
156.	Maponde	Pumpe	109	1,000
157.	Liwawa	Jong	1,074	1,000
158.	Bombonhun	Jawi	1,446	1,000
159.	Ny-ande'num	Lu'wa	1,110	1,000
160.	Jomu	Nongove	1,36	1,000

(b)

SIX RANKS OF TOWNS (THOUSANDS 1,000 PEOPLE)

(1965)

RANK	TOWN	POP.	RANKS	PER CAPITA TO 1,000 PEOPLE
1.	Freetown	57,251	60,066	302
2.	Bo	13,410	13,203	983
3.	Keneba	7,115	5,131	862
4.	Kings	6,948	6,195	862
5.	Makera	5,899	6,105	1,086
6.	Lunsar	6,110	5,992	976
7.	Koidu	6,233	5,473	878
8.	Yonjema	4,017	3,296	821
9.	Wherforde	3,831	3,069	791
10.	Magburak	2,977	3,411	1,177
11.	Sefwema	2,718	2,340	1,145
12.	Bonthe	3,115	3,115	1,000
13.	Jaiama	2,365	2,399	546
14.	Port Loko	2,879	2,930	1,018
15.	Yolumbou	3,623	1,946	510
16.	Kailahun	2,531	2,835	1,139
17.	Barma	3,793	1,482	390
18.	Blana	2,597	2,176	953
19.	Leban	2,164	2,294	861
20.	Peyima	2,985	1,640	550
21.	Kabala	2,273	2,537	1,028
22.	Hojumba	2,208	2,356	1,067
23.	Juniaay Town	2,350	2,045	870
24.	Boajilu	2,630	1,703	648
25.	Pokupr	2,067	2,084	1,008
26.	Rebel	2,102	1,691	804
27.	Kambia	1,775	1,925	1,085
28.	Jaiama	1,842	1,774	963
29.	Nembelie	1,721	1,874	1,089
30.	Kambwiekwe	1,586	1,886	1,119
31.	Rotifunk	1,593	1,927	1,210
32.	Tomaria	2,470	915	370
33.	Waterloo	1,571	1,644	1,046
34.	Penguma	1,605	1,495	932
35.	Sinkudu	2,071	1,026	495
36.	Hastings	1,544	1,478	957
37.	Tombooru	1,711	1,244	727
38.	Largo	1,656	1,284	775
39.	Yamendu	1,519	1,391	916
40.	Matru	1,107	1,502	1,068
41.	Hangha	1,815	1,080	595
42.	Gondama	1,945	912	469
43.	Tombo	1,118	1,419	1,001
44.	Baoma	1,498	1,227	819
45.	Pendembu	1,296	1,400	1,080

(b)

A P P E N D I C E

Contd.

RANK	TOWN	FAIRLS	FALTS TO 1,000 FAIRLS
46.	Kassarre	1,286	1,310
47.	Formbu	1,658	550
48.	Scam	1,588	579
49.	Hjo - Ehl	1,186	1,045
50.	Mano	1,079	1,118
51.	Gerehun	1,101	1,053
52.	Gundochun	1,057	1,088
53.	Lungi	1,078	1,015
54.	Korndu	1,103	931
55.	Al'kalla	964	1,196
56.	Kukuna	395	1,277
57.	Pujehun	949	1,143
58.	Goderich	1,087	871
59.	Lumley	1,177	788
60.	Barlo	1,041	919
61.	Gehr	901	1,192
62.	Kajima	857	1,162
63.	M. novia	841	1,192
64.	Zimpe	841	1,155
65.	Tefey	1,097	644
66.	Solina	860	1,003
67.	Duru	818	1,143
68.	Nobat	833	988
69.	Baoma	1,017	583
70.	Kou'a	597	586
71.	Kalangba	766	1,073
72.	Yiffin	745	1,121
73.	Dorghoya	1,223	549
74.	Bali	685	1,247
75.	Ghefia Timbeho	636	1,236
76.	Zimba	723	1,079
77.	Tolkporubu	891	710
78.	Gwidelu	948	592
79.	Git na	752	938
80.	Rinkolo	658	1,252
81.	Baitma	667	1,205
82.	Velinoya	870	682
83.	Bwedu	663	1,169
84.	Poloru	650	1,211
85.	Ievuma	824	704
86.	S'rabu	687	1,154
87.	Ghambi andu	1,016	365
88.	Eychom	717	934
89.	Rochein	621	1,199
90.	Tungie	651	1,106
91.	Tikouko	650	1,095
92.	Bunumbu	673	1,112
93.	Koribandu	691	954

(b)

A F P - I D I C - S

Contd.

RAN	TOWN	MALES	FEMALE'S	FEMALES TO 1,000 MALES
94.	Neaniru	637	711	1,116
95.	Bimpe	663	669	1,009
96.	Ghentu	609	711	1,158
97.	Kolento	603	692	1,138
98.	Rukel	618	678	1,097
99.	Yembama	631	648	1,027
100.	Makothi	616	626	1,049
101.	Lodge	654	628	991
102.	Gbon'goroma	587	664	1,131
103.	Gbeworhu	574	657	1,145
104.	Petewoma	638	592	928
105.	Molamdu	785	440	561
106.	Gbarzi F. c. mba	629	588	945
107.	Nyandehunu	502	660	1,355
108.	Gbe-nlembu	553	643	1,192
109.	Vogomeira	546	633	1,159
110.	Baoma	558	616	1,104
111.	Sesadiu	716	457	638
112.	Gerehun	718	454	632
113.	Kengedehu	555	612	1,103
114.	Baniara	528	637	1,206
115.	Bisimoro	512	652	1,139
116.	Konihie	572	589	1,030
117.	Abede'en	627	532	848
118.	Ghanghestoke	551	604	1,096
119.	Kon-kridee	584	564	965
120.	Kponime	735	409	556
121.	Gegbemea	562	566	1,007
122.	Hochon Kemando	517	604	1,168
123.	Pendebu	536	585	1,091
124.	Golu	674	469	725
125.	Klapehunu	52'	590	1,126
126.	Hondema	583	555	1,004
127.	Braford	529	577	1,091
128.	Bagodea	463	641	1,384
129.	Sandoratu	514	586	1,140
130.	Lalehunu	563	529	951
131.	Koi	660	428	648
132.	Upper Serma	631	648	1,027
133.	Gbirti	520	560	1,073
134.	Songo	476	536	1,231
135.	Bakelimiri	494	566	1,189
136.	Baoma	460	609	1,353
137.	Ghemé	571	465	790
138.	Menshudu	554	495	893
139.	Bagbema	654	393	601
140.	Njawama	804	241	299

(b)

A P P E N D I C E S

Contd.

RANK	TO T.	TAI '7	TAI '8	" AT. % 1,000' J. S.
141.	Bahara	194	548	1,109
142.	Ngomengno	444	594	1,338
143.	Benou	452	795	1,577
144.	Kalite	541	182	891
145.	Mano Junction	594	423	712
146.	Bomaru	490	527	1,076
147.	Bouleylehun	734	232	384
148.	Pimuru	540	47-	878
149.	Falaba	181	532	1,106
150.	Ketima	458	554	1,209
151.	Meloula	486	526	1,082
152.	Ghalanun	494	515	1,043
153.	Deme	758	245	320
154.	Plainlein	556	445	800
155.	Kambia	506	495	978
156.	Lopende	572	428	718
157.	Lua'a	428	572	1,132
158.	Zombohun	430	570	1,326
159.	Nyamilehun	360	640	1,778
160.	Jomu	486	514	1,078

	AGE GROUPS (in per cent)													
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Fredericktown	M:	6.1	5.8	5.0	5.5	5.0	5.1	4.2	3.8	3.0	2.5	1.7	1.1	1.5
	F:	7.4	6.7	6.9	4.7	4.4	4.6	3.5	2.3	2.1	1.6	1.1	0.9	1.6
B.C.	M:	8.7	6.2	5.0	5.6	4.5	5.2	3.9	3.4	2.4	1.1	0.7	0.7	1.2
	F:	8.6	7.2	4.4	5.5	6.2	5.9	3.6	2.4	1.8	1.1	0.7	0.5	1.2
Kenema	M:	6.5	4.0	4.2	5.6	5.6	6.7	5.7	4.2	2.5	1.8	1.1	0.6	0.4
	F:	7.0	4.7	3.3	5.8	6.3	5.6	3.5	2.1	1.4	0.6	0.5	0.4	0.2
Kissi	M:	7.3	5.3	4.8	4.4	3.5	4.3	4.8	4.2	3.8	3.1	2.0	1.2	0.8
	F:	7.4	6.2	4.1	4.2	5.0	5.3	3.9	5.5	2.0	1.4	1.2	0.5	1.4
Makeni	M:	8.9	6.7	5.5	5.2	3.6	4.2	2.9	2.7	2.2	1.8	1.5	0.7	0.8
	F:	9.8	8.2	4.5	5.6	6.2	5.4	5.6	2.7	1.9	1.2	0.9	0.6	0.9
Lunmar	M:	9.9	6.8	4.1	5.2	5.1	6.0	4.0	2.9	2.2	1.9	1.0	0.6	0.4
	F:	10.0	7.3	3.7	6.6	5.4	5.5	3.2	2.2	1.4	0.9	1.0	0.4	0.6
Koidu	M:	9.0	1.5	3.9	5.3	5.6	7.6	5.3	4.8	2.5	2.2	0.9	0.5	0.7
	F:	8.6	6.2	3.6	5.9	5.4	6.2	2.1	2.3	1.3	0.7	0.6	0.3	0.4
Yenepoma	M:	7.2	6.8	4.8	4.9	5.6	7.6	5.9	4.5	2.5	2.2	1.5	0.6	0.6
	F:	8.1	6.6	4.1	5.0	6.0	7.0	2.7	2.5	0.9	0.6	0.5	0.2	0.5
Willoverforce M.	M:	8.2	6.3	1.2	4.6	8.2	6.5	5.6	1.3	2.4	2.0	0.9	0.8	1.2
	F:	7.1	5.3	4.2	6.2	6.2	4.4	2.9	2.3	1.7	1.0	0.8	0.6	0.4
Magburaka	M:	8.9	7.9	5.6	4.1	2.5	5.9	2.8	3.2	1.8	1.7	0.9	0.6	1.1
	F:	10.4	9.1	4.7	4.6	4.5	7.1	5.8	3.7	1.6	1.6	0.8	0.6	0.8

AGE GROUPS OF FISH (in per cent)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Setiherne	M : 7.6 F : 9.7	6.4 2.2	4.3 3.3	4.2 5.2	3.3 5.7	1.6 6.8	3.3 5.7	3.3 3.3	2.1 1.3	2.0 1.0	1.6 0.8	1.1 0.7	1.1 0.7	1.5 1.5
Bontue	M : 6.4 F : 6.3	6.5 5.9	6.3 3.5	4.6 4.2	2.6 4.9	2.9 4.2	2.7 3.2	3.6 2.7	3.9 2.0	1.8 1.3	1.3 1.2	0.9 1.2	1.9 1.9	
Jajama	M : 7.0 F : 6.7	6.8 5.3	5.3 2.6	5.4 5.3	3.0 2.5	11.3 6.4	6.5 2.6	1.4 1.5	2.8 0.7	2.3 0.6	1.2 0.4	0.6 0.2	0.6 0.2	1.2 0.8
Port Loko	M : 8.8 F : 8.7	7.3 7.9	5.9 5.2	4.8 5.4	3.5 4.9	3.7 4.9	3.4 3.5	3.2 3.2	2.5 1.8	1.8 1.1	1.3 1.3	1.0 0.5	1.1 0.9	1.4 1.2
Yolumandu	M : 6.1 F : 5.9	3.0 4.0	2.3 2.5	5.7 5.2	12.7 5.4	15.4 4.5	6.6 2.9	4.9 1.3	3.3 0.6	1.8 0.5	1.0 0.3	0.5 0.1	0.3 0.1	0.7 0.3
Kailaphun	M : 8.9 F : 2.0	6.5 6.6	5.1 4.6	1.2 5.6	2.6 5.6	4.0 5.9	3.4 2.2	2.7 2.5	2.3 2.0	1.6 1.2	1.6 1.3	0.8 0.6	1.4 1.3	1.3 2.0
Zarma	M : 4.1 F : 4.5	2.3 2.9	2.2 1.9	9.7 6.2	15.6 5.2	16.7 3.6	10.3 1.8	6.6 0.9	3.2 0.9	1.5 0.5	1.2 0.1	0.3 0.1	0.4 0.2	0.4 0.1
Blame	M : 6.0 F : 8.6	5.2 7.0	3.5 3.7	5.1 3.5	4.0 4.2	5.5 4.7	1.0 3.4	3.9 2.3	2.0 1.5	1.8 1.3	1.3 0.7	0.7 0.7	1.2 0.8	1.7 1.6
"ellinGuru	M : 7.4 F : 7.9	5.1 5.2	2.8 2.3	6.7 5.2	1.5 5.9	12.4 4.4	8.2 3.2	5.9 1.3	2.7 1.0	2.5 2.0	2.2 1.1	1.8 0.6	1.3 0.7	2.1 2.2
P. Jura	M : 5.6 F : 5.6	4.1 4.9	2.8 2.3	6.7 5.2	1.5 5.9	12.4 4.4	8.2 3.2	5.9 1.3	2.7 1.0	2.0 0.5	0.9 0.2	0.4 0.2	0.3 0.2	0.4 0.2
Kabala	M : 8.5 F : 9.4	7.2 7.2	5.4 4.6	4.5 4.8	4.4 4.8	4.2 5.6	3.8 4.2	2.6 2.1	2.4 1.5	2.1 1.5	1.7 1.2	0.7 0.2	0.5 0.2	1.4 1.0

(c)

AGE STR. CNTY; SOCY TR NS (over 2,000), 1963 Contd.

	(1)	AGE COMPOSITION (in per cent)											
		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Kojarha	M : 7.9 F : 8.5	5.6 5.4	5.0 4.5	4.2 3.9	2.3 1.6	3.8 3.0	3.5 3.4	3.0 3.0	2.7 2.6	1.6 1.5	1.2 1.2	0.9 0.8	2.6 0.5
Murray Town	M : 7.4 F : 7.8	6.9 5.9	5.2 4.2	4.1 3.6	5.3 4.6	5.0 4.6	4.5 3.4	3.8 3.0	2.2 1.5	1.1 1.2	1.0 0.7	1.2 0.9	1.5 2.1
Bogemia	M : 6.6 F : 6.0	4.9 4.9	3.6 2.3	5.5 6.1	3.9 7.7	11.4 6.5	6.3 2.0	5.8 1.3	2.6 0.9	1.6 0.6	0.6 0.3	0.5 0.3	0.7 0.3
Rohing	M : 8.7 F : 8.7	9.0 7.9	6.2 4.9	4.2 5.3	2.8 4.9	3.2 4.6	1.2 2.9	2.9 2.6	1.9 1.2	1.9 1.4	0.9 1.0	0.6 0.7	1.3 0.3
Pepeh	M : 7.8 F : 7.9	4.5 6.2	2.8 2.9	5.9 6.3	6.2 6.8	6.9 6.0	4.5 2.7	5.3 2.5	2.3 1.2	1.4 0.5	0.3 0.4	0.2 0.3	1.0 0.4
Karlia	M : 9.6 F : 9.8	8.0 7.4	6.8 4.9	3.9 4.8	2.2 4.5	3.4 6.1	3.0 4.8	3.1 3.2	2.6 2.0	1.1 1.3	0.7 0.9	1.1 0.5	1.6 1.6
Jatima	M : 9.1 F : 9.4	6.5 6.6	1.6 3.6	4.7 5.5	3.5 4.8	4.6 1.6	3.2 5.9	3.6 2.6	2.7 2.1	1.6 1.4	1.3 0.6	1.1 0.6	2.0 1.6
Mambolo	M : 8.9 F : 9.3	7.3 6.6	3.3 2.9	2.9 4.2	2.9 6.5	3.6 6.1	4.9 3.1	3.0 1.6	2.9 1.6	2.8 1.1	0.7 0.6	1.4 1.3	1.3 0.7
Kumakwe	M : 11.3 F : 10.9	7.8 7.7	3.8 4.2	1.2 5.9	3.0 6.3	4.1 5.3	2.7 2.4	2.6 1.9	1.3 1.3	1.0 1.3	0.7 0.4	0.9 0.7	1.8 1.2
Rotifunc	M : 7.6 F : 9.4	6.7 8.8	4.7 4.8	3.8 4.7	2.5 4.3	3.7 4.3	3.1 4.2	3.1 2.8	2.5 2.7	1.8 2.0	1.4 1.4	1.7 1.0	1.7 1.4

AFFILIATE S Contr.

AFFILIATE S

CONTINUATION (in per cent)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Romaña M:	3.3	2.5	3.2	10.8	12.8	15.1	10.2	7.0	4.4	2.3	1.6	0.6	0.4	0.8
Romaña F:	4.0	2.6	1.8	7.0	4.5	3.6	1.8	0.7	0.4	0.1	0.2	0.1	0.1	0.1
Waterloo M:	7.6	6.1	3.9	1.7	2.3	2.5	2.8	3.0	2.7	1.9	1.5	1.4	1.5	3.4
Waterloo F:	7.6	8.0	4.7	3.3	3.1	4.4	3.7	5.0	2.6	2.3	1.9	1.6	1.5	3.4
Tanaga M:	6.4	5.2	5.0	5.4	5.0	6.4	5.2	4.5	2.7	1.8	1.3	0.6	1.0	1.2
Tanaga F:	8.5	4.8	3.6	6.7	5.6	6.5	3.5	2.4	1.3	1.0	0.5	1.0	1.0	1.6
Sukkudu M:	4.0	3.6	3.5	9.8	12.0	13.8	7.4	5.3	3.0	1.2	0.8	0.5	0.5	1.1
Sukkudu F:	4.0	4.5	2.5	7.1	5.7	4.4	1.8	1.0	0.5	0.4	0.3	0.2	0.1	0.4
Hestings M:	7.2	5.7	4.9	3.8	4.5	3.6	2.7	3.0	3.4	2.1	2.2	1.5	1.5	2.9
Hestings F:	7.1	7.2	3.6	3.4	5.0	5.2	2.5	2.3	2.5	2.4	2.0	1.8	1.1	2.8
Tombodu M:	7.2	4.9	3.9	5.8	7.3	8.9	6.3	4.6	3.3	2.8	1.0	0.7	0.7	1.3
Tombodu F:	7.2	5.1	3.4	6.4	5.4	5.0	3.6	1.3	1.5	3.3	0.7	0.3	0.6	0.8
Lareo M:	5.6	4.2	3.0	3.1	2.1	7.5	6.8	7.2	4.9	2.8	2.2	0.7	1.5	2.9
Lareo F:	6.8	4.5	2.0	3.9	4.4	5.9	4.1	2.3	2.5	1.4	1.3	0.7	1.7	2.5
Yamandu M:	6.2	4.2	3.0	5.0	6.5	8.3	6.2	3.8	2.5	1.9	1.4	0.9	0.8	1.0
Yamandu F:	8.6	5.4	2.3	6.9	7.6	3.6	3.5	1.9	1.2	0.9	1.1	0.7	0.5	0.8
Mattru M:	7.7	7.4	6.5	5.5	2.4	3.1	3.2	4.1	1.9	2.5	0.9	1.9	0.9	1.0
Mattru F:	7.5	8.5	6.1	6.0	2.4	5.1	3.2	4.3	1.9	1.8	0.9	1.1	0.9	1.5
Hengha M:	5.5	4.0	3.6	6.0	8.7	12.2	7.8	6.5	5.1	1.8	1.1	0.9	0.7	1.0
Hengha F:	6.0	4.1	2.7	6.5	4.5	5.3	2.0	2.2	1.0	0.4	0.3	0.8	0.4	1.0
Gonjama M:	2.4	2.2	2.5	10.0	14.0	16.5	7.4	5.5	2.3	1.4	0.7	0.6	0.2	0.5
Gonjama F:	4.4	3.5	2.0	7.4	6.7	4.3	1.7	1.3	0.6	0.2	0.2	0.1	0.1	0.2
Tombo M:	6.5	7.2	3.4	5.1	4.1	5.1	4.4	2.2	3.6	2.1	2.5	2.5	2.5	1.4
Tombo F:	6.7	6.4	2.6	4.3	4.1	6.1	5.8	2.5	3.7	1.7	1.2	0.5	0.5	1.4

ESTIMATES

cont'd.

APPENDIX II

(1960 Census)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Bengal 1961 B: T:	7.4 7.7	7.0 5.2	2.5 2.7	5.0 5.0	7.0 4.3	2.0 2.7	4.1 2.0	7.0 6.6	1.5 1.2	0.5 0.5	0.1 0.7	0.1 0.7	0.2 1.0
Bihar 1961 B: T:	5.5 9.2	5.0 6.9	2.5 3.0	5.5 5.5	1.0 5.2	3.7 3.0	1.2 1.7	2.3 1.7	1.9 1.4	0.9 0.7	0.2 0.7	0.2 0.7	2.9 3.1
Kashmir 1961 B: T:	7.5 9.0	6.0 6.4	2.0 2.0	6.8 6.3	1.1 1.0	1.0 1.0	1.1 1.0	1.0 1.0	1.7 1.5	0.3 0.5	0.1 0.5	0.1 0.5	1.6 1.5
Punjab 1961 B: T:	3.2 1.8	1.5 1.8	1.0 1.0	1.0 1.0	1.0 1.0	1.0 1.0	1.0 1.0	1.0 1.0	2.0 2.0	0.5 0.5	0.1 0.5	0.1 0.5	1.3 1.4
Sindh 1961 B: T:	2.2 6.3	0.0 0.9	0.0 0.6	5.2 5.0	1.2 0.6	2.0 2.1	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.4	0.2 0.1	0.2 -	0.4 0.4
Gujarat 1961 B: T:	5.2 8.6	5.0 8.0	0.2 0.2	5.0 5.0	1.2 1.0	5.0 5.0	1.2 1.2	1.0 1.0	1.0 1.0	0.5 0.4	0.2 0.2	0.1 0.2	0.1 0.2
Madhya Pradesh 1961 B: T:	4.0 7.6	3.0 6.2	0.2 0.2	6.2 6.2	1.2 1.2	6.2 6.2	1.2 1.2	6.2 6.2	1.7 1.7	0.2 0.2	0.7 0.7	0.1 0.1	0.1 0.1
Maharashtra 1961 B: T:	7.5 5.2	7.5 5.2	1.0 1.0	3.6 3.6	1.0 1.0	2.0 2.0	1.0 1.0	2.0 2.0	1.6 1.6	0.1 0.1	0.2 0.2	0.1 0.1	0.1 0.1
Uttar Pradesh 1961 B: T:	10.3 7.0	7.5 5.3	3.4 2.7	4.7 4.7	1.7 1.7	3.7 3.7	1.7 1.7	2.0 2.0	1.7 1.7	1.0 1.0	1.5 1.5	1.4 1.4	1.4 1.4
Uttarakhand B: T:	3.6 2.6	2.7 2.4	1.8 2.5	2.2 2.0	1.0 1.0	1.0 1.0	1.0 1.0	1.0 1.0	1.5 1.5	0.5 0.5	0.8 0.8	0.1 0.1	1.0 1.0
Karnataka B: T:	9.5 6.2	7.5 5.9	3.5 3.5	4.9 4.9	1.1 1.0	4.9 4.9	1.7 1.7	2.3 2.3	1.5 1.5	0.9 0.9	0.5 0.5	0.8 0.8	0.6 0.5

APPENDICES

Counties.

All, COMPO-TCV (in per cent.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
All, China	10.9	7.1	4.8	5.4	2.6	2.7	2.5	1.2	1.5	2.3	1.1	1.1	1.3
E. 9.8	5.8	3.1	7.6	6.2	5.7	4.5	5.1	2.5	1.3	1.8	0.5	0.5	1.7
Kultuna	11. 9.3	8.8	3.7	3.3	2.6	2.6	2.6	2.0	1.8	0.9	1.1	1.1	3.9
E: 9.8	6.3	3.3	6.0	6.0	6.0	5.3	2.5	2.1	0.6	1.3	0.3	1.4	3.1
Fujochun	11. 7.8	5.8	6.8	6.8	2.6	3.6	3.1	3.1	1.9	1.6	1.5	1.4	1.0
E: 8.3	10.3	5.5	3.4	5.6	4.5	5.6	2.9	1.8	1.5	1.3	1.1	1.7	1.6
Gold, rich	11. 8.0	4.4	2.8	1.2	4.0	5.3	1.9	1.6	3.1	3.1	2.6	2.0	2.6
E: 7.6	4.3	3.9	3.7	3.8	4.1	5.4	3.2	3.0	1.9	2.2	1.0	1.3	1.3
Zimley	11. 8.8	6.6	4.9	8.3	4.9	4.6	3.5	2.3	3.9	2.1	2.1	0.6	1.7
E: 8.6	6.0	2.6	4.6	4.6	4.6	4.9	4.4	2.8	2.6	1.2	1.8	0.3	-
Mean	11. 7.6	5.8	4.7	5.3	5.2	5.9	4.5	4.0	2.9	2.2	1.5	0.9	1.4
E: 7.9	6.5	4.2	5.3	5.2	5.2	5.2	5.4	2.5	1.8	1.3	1.1	0.7	1.3
National	11. 8.6	6.7	3.5	3.8	3.5	4.3	3.3	3.3	2.9	2.3	1.8	1.1	1.4
E: 8.7	6.2	3.1	5.1	5.2	5.2	4.1	2.9	2.4	1.5	1.4	0.8	1.2	2.4

506

SYNTH. All C.R.C.I.P. (in Years) KEY

SYNTH.	All C.R.C.I.P. (in Years)	KEY	SY. C.R.C.I.P.	Age GR. C.R.C.I.P. (in Years)
1	= Under 5		6	= 35 - 39
2	= 5-9		9	= 40 - 44
3	= 10-14		10	= 45 - 49
4	= 15-19		11	= 50 - 54
5	= 20-24		12	= 55 - 59
6	= 25-29		13	= 60 - 64
7	= 30-34		14	= Over 64
M	= Males		F	= Females

APPENDICES
(d)

OCCUPATIONAL STRUCTURE OF LOCALITIES WITH OVER
2,000 INHABITANTS (1961)

Town	Occupational Group (in Per Cent)							
	a	b	c	d	e	f	g	h
Alikalua	94.1	-	0.2	0.9	0.2	2.5	0.2	1.3
Baomu	47.5	-	33.5	3.5	0.6	10.0	1.4	3.5
Barma	16.5	-	53.4	7.0	1.0	17.6	1.7	2.7
Blama	20.9	0.3	1.9	16.5	2.3	38.1	9.0	11.0
Bo	9.3	0.7	1.1	10.6	10.3	28.6	9.7	24.1
Boajieu	20.4	-	34.0	10.8	1.0	18.5	3.1	6.1
Bonthe	16.1	2.5	0.2	12.7	3.2	33.4	12.4	19.4
Fomelia	17.6	0.4	65.2	4.7	0.5	10.3	0.2	1.3
Foindu	43.0	-	31.9	5.1	0.2	15.0	1.0	0.5
Freetown	2.4	2.2	0.3	12.4	9.9	31.6	13.2	21.9
Gandorhu	67.5	0.3	0.5	3.8	1.6	12.2	3.2	5.9
Gorehun	52.5	0.7	7.0	8.3	1.1	15.5	2.5	3.9
Goderich	36.1	0.3	0.1	6.1	27.5	20.4	4.3	4.4
Gondama	57.1	-	45.4	4.6	1.0	10.1	0.6	1.2
Hangha	15.9	0.1	59.6	7.2	0.7	11.0	2.3	2.3
Hastings	22.6	0.8	0.1	18.3	3.4	16.1	13.0	15.0
Jaiama ("K")	66.8	0.3	6.9	7.2	0.5	9.0	2.7	6.0
Jaiama	30.7	0.1	42.5	7.2	0.9	12.7	1.5	4.4
Kabala	33.5	1.3	-	16.4	4.6	22.1	7.2	14.3
Kailanun	41.0	1.2	0.2	16.4	3.2	19.3	5.5	13.1
Kamakwie	47.1	0.2	0.1	10.4	1.4	25.2	6.2	9.4
Kambia	33.3	1.5	0.2	14.5	2.3	24.0	5.8	17.9
Kasiri	44.8	-	-	15.2	1.1	26.5	5.9	6.4
Kenema	10.6	1.9	1.3	22.0	12.4	31.0	4.4	16.3
Kissy	4.5	2.7	0.4	12.8	13.5	21.7	19.1	24.5

APPENDICES contd.

(a)

Town	Occupational Group (in Per Cent)							
	a	b	c	d	e	f	g	h
Koidu	15.1	1.6	0.3	18.1	4.5	30.2	8.2	11.5
Kukuna	91.2	-	0.1	2.1	0.4	3.7	1.2	1.2
Largo	42.3	0.1	40.8	7.3	0.1	6.7	1.2	1.5
Lumley	15.5	4.7	0.7	8.6	15.3	18.5	4.0	29.4
Lungi	56.9	13.2	-	7.8	-	11.4	6.8	3.9
Lunsar	8.4	1.6	51.8	8.7	2.7	17.8	2.5	6.5
Koindu	26.3	0.3	0.1	15.9	3.9	39.2	7.6	6.5
Magburaka	17.7	2.9	0.5	12.4	5.7	30.2	7.1	23.5
Makeni	16.8	2.1	0.2	19.9	8.0	31.2	7.2	14.6
Lambolo	73.7	-	-	12.3	1.4	7.3	1.1	4.2
Mano	45.7	1.3	-	11.8	1.9	24.3	7.7	7.0
Masingbi	62.2	-	1.6	2.0	0.8	16.8	2.9	5.7
Matru	29.3	0.4	-	12.6	5.4	26.5	6.3	19.3
Moyamba	28.6	2.7	0.1	11.4	2.8	27.5	4.3	22.6
Murray Town	15.0	1.6	0.2	8.9	16.6	15.4	6.4	35.7
Panguma	41.3	0.3	11.9	17.0	3.1	12.8	8.5	5.0
Pendembu	42.0	0.6	0.1	14.9	8.7	20.9	7.3	5.5
Pepel	5.8	0.1	44.1	2.7	32.8	8.4	3.6	2.4
Feyima	15.9	-	56.4	8.5	1.3	14.1	1.3	2.4
Port Loko	20.0	3.5	0.5	14.3	11.1	25.2	6.7	15.7
Pujehun	20.9	2.8	0.6	17.1	3.9	20.1	3.9	30.7
Rokupr	45.2	1.3	-	9.2	5.1	19.1	4.5	14.5
Kotifunk	52.1	0.5	-	13.7	2.6	28.0	8.0	15.1
Sedu	26.9	-	30.6	11.4	1.0	15.6	3.0	5.4
Sefadu	37.9	0.6	4.6	12.5	3.7	9.9	3.7	25.9
Segbwema	38.7	0.5	1.2	15.5	2.2	24.0	4.4	13.4
Sukudu	38.3	0.1	44.2	7.5	0.6	7.5	0.6	1.2
Tombo	90.7	-	-	2.3	0.2	4.3	0.6	0.8

APPENDICES contd.

(a)

Town	Occupational Group (in Per Cent)							
	a	b	c	d	e	f	g	h
Tombudu	44.9	0.1	29.2	7.8	0.6	10.8	1.1	5.4
Waterloo	16.3	1.6	0.3	11.3	7.9	36.7	10.3	15.2
Wellington	18.2	1.7	0.8	17.5	9.8	24.3	14.2	11.0
Wilberforce	1.7	1.2	0.9	5.8	9.8	14.3	3.5	61.7
Yamandu	38.5	-	32.5	7.6	1.1	14.8	1.1	4.4
Yengema	14.6	0.2	50.6	8.6	2.1	12.9	5.8	5.2
Yormandu	19.1	0.1	48.1	9.8	1.1	17.6	1.6	2.7

Note

(a) = Agriculture, Forestry, Fishing and Hunting

(b) = Electricity, Gas and Water

(c) = Mining and Quarrying

(d) = Manufacturing

(e) = Construction

(f) = Commerce

(g) = Storage, Transport and Communications

(h) = Services.

100% - $\sum(a)(b)(c)(d)(e)(f)(g)(h)$ = Percentage employed in
activities not adequately described

SELECTED BIBLIOGRAPHYA. GENERAL

1. E. Bergel, Urban Sociology, (McGraw Hill Bk. Co. 1955).
2. B.J.L. Berry, Commercial Structure and Commercial Blight, (Chicago, Illinois, 1963).
3. B.J.L. Berry, and A. Pred, Central Place Studies. A Bibliography of Theory and Applications, (Regional Science Research Institute, Philadelphia 1, 1961). This contains all the relevant references on Central Place Studies up to 1960.
4. W. Bunge, Theoretical Geography, (Gleerups, 1962).
5. Dean-Braines, A Book of Houses, (Crown Publishers, New York, 1946).
6. R.E. Dickinson, City and Region, (Routledge and Kegan Paul, 1946).
7. O.D. Duncan, et al., Metropolis and Region, (John Hopkins, 1960).
8. R.E. Dickinson, West European City, (Routledge and Kegan Paul, 1951).
9. K. Dziewonski, "Urbanization in Contemporary Poland", Geographia Polonica, (1964), pp.37-56.
10. A.B. Gallion, and S. Eisner, The Urban Pattern, (D. Van Nostrand Company, New Jersey, 2nd edition, 1963).
11. B. Fletcher, A History of Architecture On the Comparative Method, (Althlone Press, 1961).
12. E. Maxwell Fry, Fine Building, (Faber and Faber, London, 1947).
13. B.F. Hoselitz, "The Role of Cities in the Economic Growth of Underdeveloped Countries (1)", Sociological Aspects of Economic Growth, (The Free Press, 1960), pp.159-181.
14. J.M. Houston, A Social Geography of Europe, (Duckworth, 1963).

15. The I.G.U. Symposium in Urban Geography, (Lund, 1960).
16. J.P. Gibbs (ed.), Urban Research Methods, (D. Van Nostrand Company, New Jersey, 1961).
17. C.F. Kohn, and H.M. Mayer (eds.), Readings in Urban Geography, (University of Chicago Press, Illinois, 1963).
18. M.C. Magee, Monterrey, Mexico, (Chicago, Illinois, 1958).
19. G. Sjoberg, "The Preindustrial City", The American Journal of Sociology, 60, (March, 1955), pp.438-445.
20. L. Reissman, The Urban Process (Collier-Macmillan Ltd., London, 1964).
21. World Housing Conditions and Estimated Housing Requirements, (United Nations, New York, 1964 & 1965).
22. Report of the Ad. Hoc. Group of Experts on Housing and Urban Development, (Dept. of Economic and Social Affairs, United Nations, New York, 1962).
23. Report of the Meeting of Experts on Housing Problems in Africa, (E.C.A; U.N.E.S.C.O., Addis Ababa, January, 1963).
24. B. Ward, The Process of World Urbanization, (Round Table Conference on the Planning and Development of New Towns, Moscow, 1964).
25. D. Weber, A Comparison of Two Oil City Business Centres, (Chicago, Illinois, 1960).
26. L. Wingo (ed.), Cities and Space. The Future Use of Urban Land, (John Hopkins Press, Baltimore, 1964).
- B. WEST AFRICA
 - (1) GENERAL
27. J. Acqua, Accra Survey, (London University Press, London, 1958).

28. W. Bascom, "Some Aspects of Yoruba Urbanism", American Anthropologist, 54, 4, (1962).
29. W. Bascom, "Urbanization among the Yourba", American Journal of Sociology, 60, 5, (1955), pp.446-454.
30. W. Bascom, "Urbanism as a Traditional African Pattern", Sociological Review, (Special Number, Keel, 7, 1959), pp.29-44.
31. H.U. Beier, "Oshogbo: Portrait of a Yoruba Town", Nigerian Magazine, (Lagos, 1960), pp.95-102.
32. H.U. Beier, "Changing Face of a Yoruba Town", Nigerian Magazine, 59, (Lagos, 1958), pp.373-382.
33. A.D.H. Bivar, and P.L. Shinnie, "Old Kanuri Capitals", Journal of African History, 3, (1962).
34. E.A. Boateng, "The Growth and Functions of Accra", Bulletin of the Ghana Geographical Association, 4, (1959), pp.4-15.
35. I. Thomas-Bulmer, "The Political Aspect of Migration from Country to Town-Nigeria", Record of the XXVIIth Meeting, International Institute of Differing Civilizations, (Brussels, 1952), pp.476-484.
36. R.J. Harrison Church, "West African Urbanization: A Geographical View", Sociological Review, (Special Number, Keel, 7, 1959), pp.15-28.
37. L. Coursin, "Dakar: Port Atlantique", Les Cahiers d'Outre-Mer, (Bordeaux, 1948).
38. Sir G.G. Denton, "23 Years in Lagos and the Gambia", Journal of African Sociology, 11, 42, (Jan. 1912), pp.129-40.
39. C.B. Dodwell, "Iseyin - the Town of Weavers", Nigerian Magazine, 46, (Lagos, 1955), pp.118-143.
40. J. Dresch, "Les Villes d'Afrique Occidentale", Les Cahiers d'Outre-Mer, (Bordeaux, 1950).
41. E.D. Earthy, "The Social Structure of a Gande Town, Liberia", Man, 36, (Dec. 1936), pp.203-5.
42. E.D. Earthy, "The Social Evolution of a Hamlet and of a Village in Liberia, with Notes on some 'Artificial' Settlement", Proc. Int. Congr. Sociol. Rome, (Aug. 30 - Sept. 3, 1950).

43. J.H. Ewart, "Lagos, Its Hinterland, Its Products and Its People", Journal of the Royal Society of Arts, 50, (1903), pp.650-9.
44. J.V. Egharevba, "The City of Benin", (Aguebor Printers, Benin, 1952).
45. C.G. Feilberg, "Ibadan", Kulturgeografi, 59, (1958).
46. M. Fortes, R.W. Steel, and P. Ady, "Ashanti Survey, 1945-46: An Experiment in Social Research", Geogr. Journal, 110, (1947).
47. E. Maxwell Fry, "Town Planning in West Africa", African Affairs, (1946).
48. M. Gosselin, "Bamako, Ville Soudaine Moderne", L'Afrique et L'Asie, (1953).
49. P.E.H. Hair, "Enugu: An Industrial and Urban Community in Eastern Nigeria, 1914-1953", West Africa Institute of Social and Economic Annual Conference, (Sociological Section, March 1953), pp.143-67.
50. H.R. Jarrett, "Bathurst, Port of the Gambia River", Geography, 36, (1957), pp.98-107.
51. H.R. Jarrett, "Population and Settlement in the Gambia", Geographical Review, 39, (1949).
52. "Katsina", Nigeria, 51, (1956), pp.299-317.
53. H. Kuper (ed.), Urbanization and Migration in West Africa, (University of California Press, Berkeley, 1965).
54. K. Little, "The Urban Role of Tribal Associations in West Africa", African Studies, 21, (1902), pp.1-9.
55. K. Little, West African Urbanization. A Study of Voluntary Associations in Social Change, (Cambridge University Press, 1965).
56. A. Mabogunje, "The Growth of Residential Districts in Ibadan", Geographical Review, 52, (1962), pp.56-77.
57. A. Mabogunje, "Black Metropolis", Nigerian Magazine, (Lagos, 1961), pp.12-26.

58. A. Mabogunje, Yoruba Towns, (Ibadan University Press, Ibadan, 1962).
59. D.F. McCall, "Dynamics of Urbanization in Africa", The Annals of the American Academy of Political and Social Science, (March, 1955).
60. J. Maxwell, "Ashanti, Kumasi - The Garden City of West Africa", Journal of African Sociology, 27, 107, (April, 1928), pp.219-34.
61. G. McDonell, "The Dynamics of Geographic Change; The Case of Kano", Annals of American Geographers, 54, 3, (Sept. 1964), pp.355-372.
62. R. Miller, "Katsina, A City of the Desert Border", Geography, 22, (1937), pp.283-92.
63. H. Miner, The Primitive City of Timbuctoo, (Princeton University Press, Princeton, 1953).
64. N.C. Mitchel, "Yoruba Town", Essays on African Population, eds. K.M. Barbour and R.M. Prothero, (London, 1961), pp.279-301.
65. N.C. Mitchel, "The Nigerian Town: Distribution and Definition", Research Notes. University of Ibadan, 7, (1955), pp.1-13.
66. W.B. Morgan, "Farming Practice, Settlement Pattern, and Population Density in South-Eastern Nigeria", Geographical Review, 71, (1955), pp.320-33.
67. W.B. Morgan, "The 'Grassland Towns' of the Eastern Region, Nigeria", Institute of British Geographers, 23, (George Philip and Sons, London, 1957).
68. R.W. Steel, "The Towns of Ashanti: A Geographical Study", Comptes. Rendus du Congres International de Geographie, (1948).
69. R.W. Steel, "Some Problems of Population in British West Africa", Geographical Essays on British Tropical Lands, (George Philip and Sons, London, 1956), pp.17-51.

70. R.W. Steel, "The Towns of Tropical Africa", Essays on African Population, eds. K.M. Barbour and R.M. Prothero, (London, 1961), pp.249-278.
71. R.W. Steel, "African Urbanization: a Geographer's Viewpoint", Urbanization in African Social Change, (Centre of African Studies, University of Edinburgh, 5th-7th January, 1963).
72. A.C. Sutherland, "Private Enterprise Housing in the Urban Area of Kumasi", Paper read at the Conference of the West African Institute of Social and Economic Research, held at the University of the Gold Coast, March, 1955.
73. A.C. Sutherland, "Housing and Town Planning as Instruments of Social Control in Africa", Paper read at the Conference of the West African Institute of Social and Economic Research, held at the University College, Ibadan, March, 1956.
74. B.E. Thomas, "Railways and Ports in French West Africa", Economic Geography, 33, (1957).
75. B.E. Ward, "An Analysis of the Distribution of Population in a Town in British Togoland", Man, 55, 43, (March, 1955), pp.35-39.
76. R.M.C. Welldon, The Human Geography of a Yoruba Township in Southwest Nigeria, (B.Litt. Thesis, Oxford, 1957).
77. H.P. White, "The Ports of West Africa: Some Geographical Considerations", Tijdschrift voor Economische en Sociale Geografie, 50, (1959).
78. D. Whittlesey, "Dakar and The Other Cape Verde Settlements", Geographical Review, 31, (1941), pp.609-38.
79. D. Whittlesey, "Dakar Revisited", Geographical Review, 33, (1943), pp.626-32.
80. D. Whittlesey, "Kano. A Sudanese Metropolis", Geographical Review, 27, (1937), pp.177-200.
- (ii) Sierra Leone
81. T.J. Alldridge, The Sherbro and its Hinterland, (MacMillan, London, 1901).

82. T.J. Alldridge, A Transformed Colony: Sierra Leone as It Was, as It Is, Its Progress, Peoples, Native Customs and Undeveloped Wealth, (Seely, London, 1910).
83. M. Banton, West Africa City: A Study of Tribal Life in Freetown, (Oxford University Press, London, 1957).
84. F.W. Butt-Thompson, Sierra Leone in History and Tradition, (London, 1926).
85. A.W. Falconbridge, Two Voyages to Sierra Leone, during the Years 1791-3 1794.
86. N.G. Frere, "Notes on the History of Port Loko, and its Neighbourhood", Sierra Leone Studies, 2, (Reprinted April 1926, pp.63-69).
87. C. Fyfe, History of Sierra Leone, (Clarendon Press, 1963).
88. D. Gamble, "The Temne Family in a Modern Town (Lunsar), Sierra Leone", Africa, 33, (1963), pp.209-225.
89. D. Gamble, "Lunsar" a Mining Town in Temne Country" Journal of the Sierra Leone Geographical Association, 7 & 8, (1964), pp.13-15.
90. D. Gamble, "Kenema - A Growing Town in Mende Country", Journal of the Sierra Leone Geographical Association, 7 & 8, (1964), pp.9-12.
91. J. De Hart, "Notes on the Susu Settlement at Lungi", S.Leone Studies, 2, (1919), pp.40-62.
92. N.C. Hollins, "A Short History of the Luawa Chiefdom", S.Leone Studies, (June 1929), pp.12-15.
93. E.S. Ingram, Sierra Leone After a Hundred Years, (London, 1894).
94. H.R. Jarrett, "Freetown: A Study in Space Relationships", S.Leone Studies, 2, (June 1954), pp.98-108.
95. H.R. Jarrett, "The Port and Town of Freetown", Geography, 40, (1955), pp.108-18.
96. H.R. Jarrett, "Some Aspects of the Urban Geography of Freetown, Sierra Leone", Geographical Review, 46,3, (July 1956), pp.334-54.

97. H.R. Jarrett, "Lunsar: A Study of an Iron Ore Mining Centre in Sierra Leone", Economic Geography, 32, 2, (1956), pp.153-61.
98. R.R. Kuczynski, Demographic Survey of British Colonial Empire, Vol.1, West Africa, (O.U.P. London, 1948).
99. A.G. Laing, Travels in the Timanee, Kooranko and Soolima Countries in Western Africa, (1825).
100. R. Lewis, Sierra Leone. A Modern Portrait, (H.M.S.O., London, 1954).
101. K. Little, The Mende of Sierra Leone: A West African People in Transition, (Kegan Paul, London, 1951).
102. A.B. Matthews, "Report on the Tribal Administration in Freetown". Government Sessional Paper No.4 of 1940.
103. H. Mitchell, An Introduction to the Geography of Sierra Leone, (Waterloo, London, 1918).
104. F.W.H. Migeod, A View of Sierra Leone, (Kegan Paul, Trench and Trubner & Co. Ltd., 1926).
105. H. Ranson, "The Growth of Moyamba", Journal of the Sierra Leone Geographical Association, 9, (1956), pp.54-62.
106. R.W. Steel, "Sierra Leone: the Transformation of a Colony", I.G.J. Silver Jubilee Souvenir and N. Subrahmanyam Memorial Vol., (1951), pp.53-9.
107. R.W. Steel, Human Geography of Sierra Leone (unpub. thesis, Oxford, 1938).
108. D.R. Stoddard, "Observations on House Types in Sierra Leone, West Africa" (M.S., Dept. of Geography, Downing Place, Cambridge).
109. "Tribal Headmen in Freetown" Journal of African Administration, Vol.6, 1954, pp.140-4.
110. W.H. Fitzjohn, "A Village in Sierra Leone", S. Leone Studies, 7, (Dec. 1956), pp.45-54.
111. T. Winterbottom, An Account of the Native Africans in the Neighbourhood of Sierra Leone, (1803).