

No. 20 - 8

経済技術協力国別資料

ナイジェリア

REPUBLIC OF NIGERIA

地域開発適地判断地図

JICA LIBRARY



1064791[5]

1987年 3月

国際協力事業団
企画部地域課

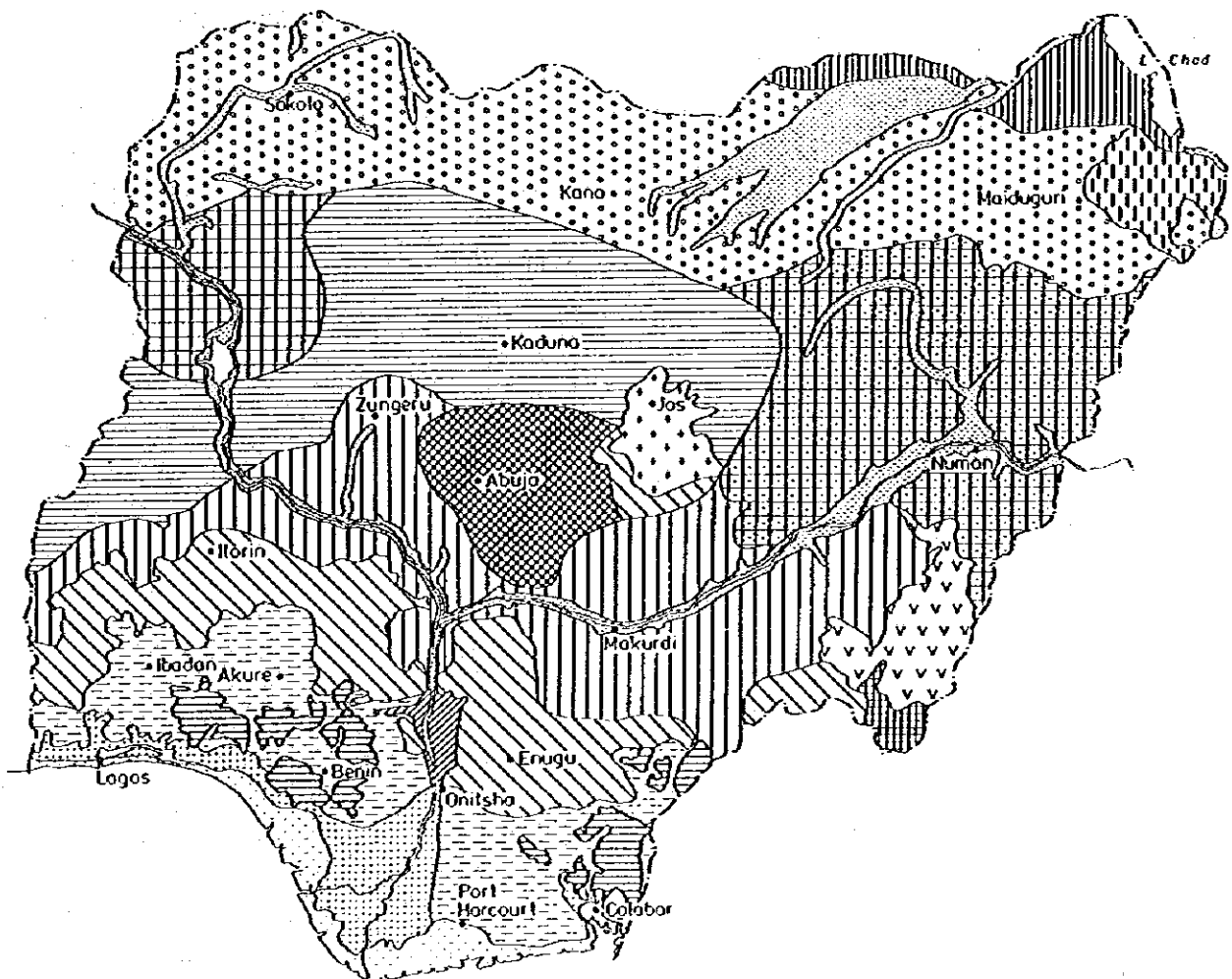
地 域

J R

87 - 4

ナイジェリア共和国に於ける

地域開発適地判断地図



国際協力事業団
企画部地域課

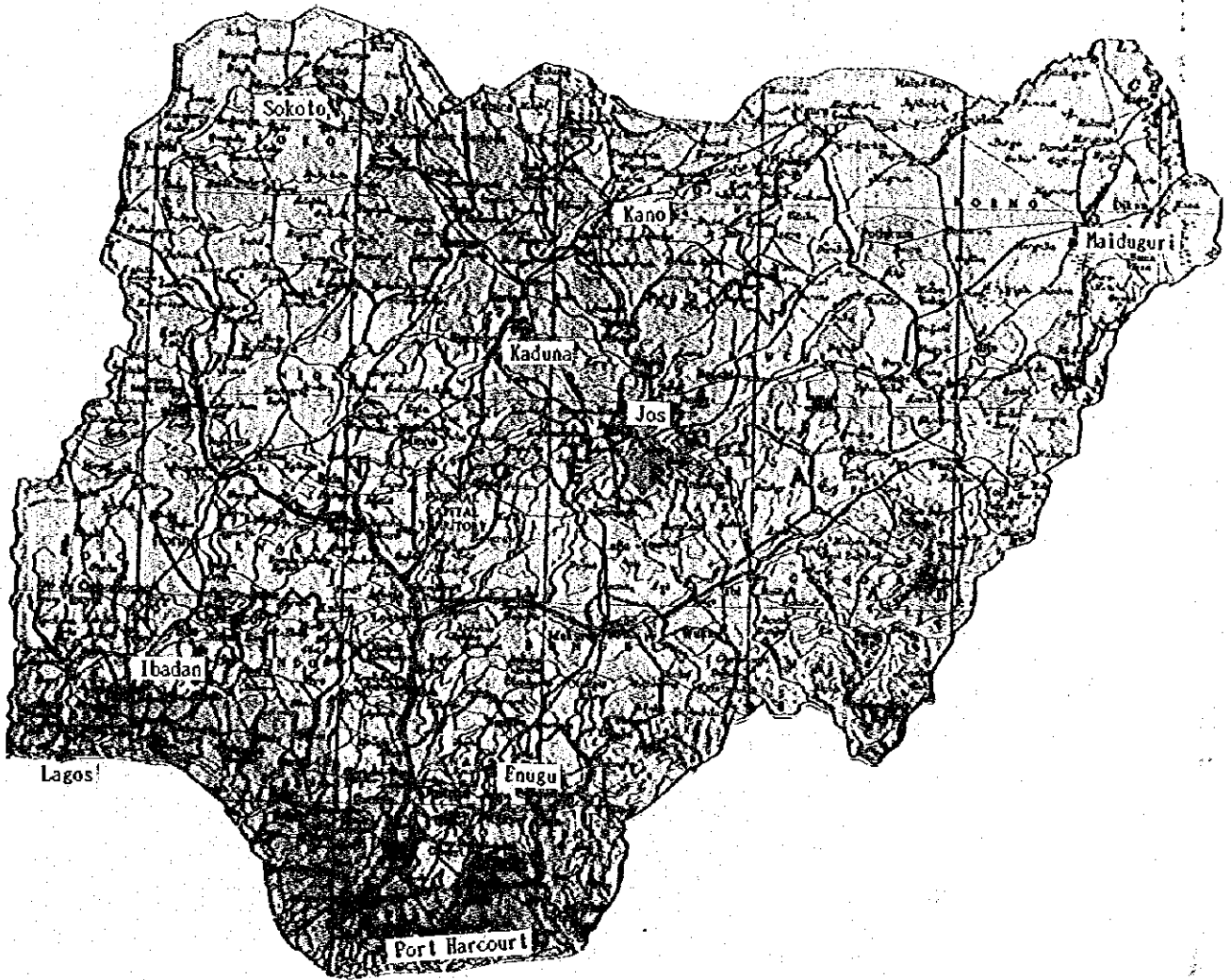
1987年3月

国際協力事業団		
受入 月日	'87.7.18	524
登録 No.	16656	36
		PLC

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1. 地勢図



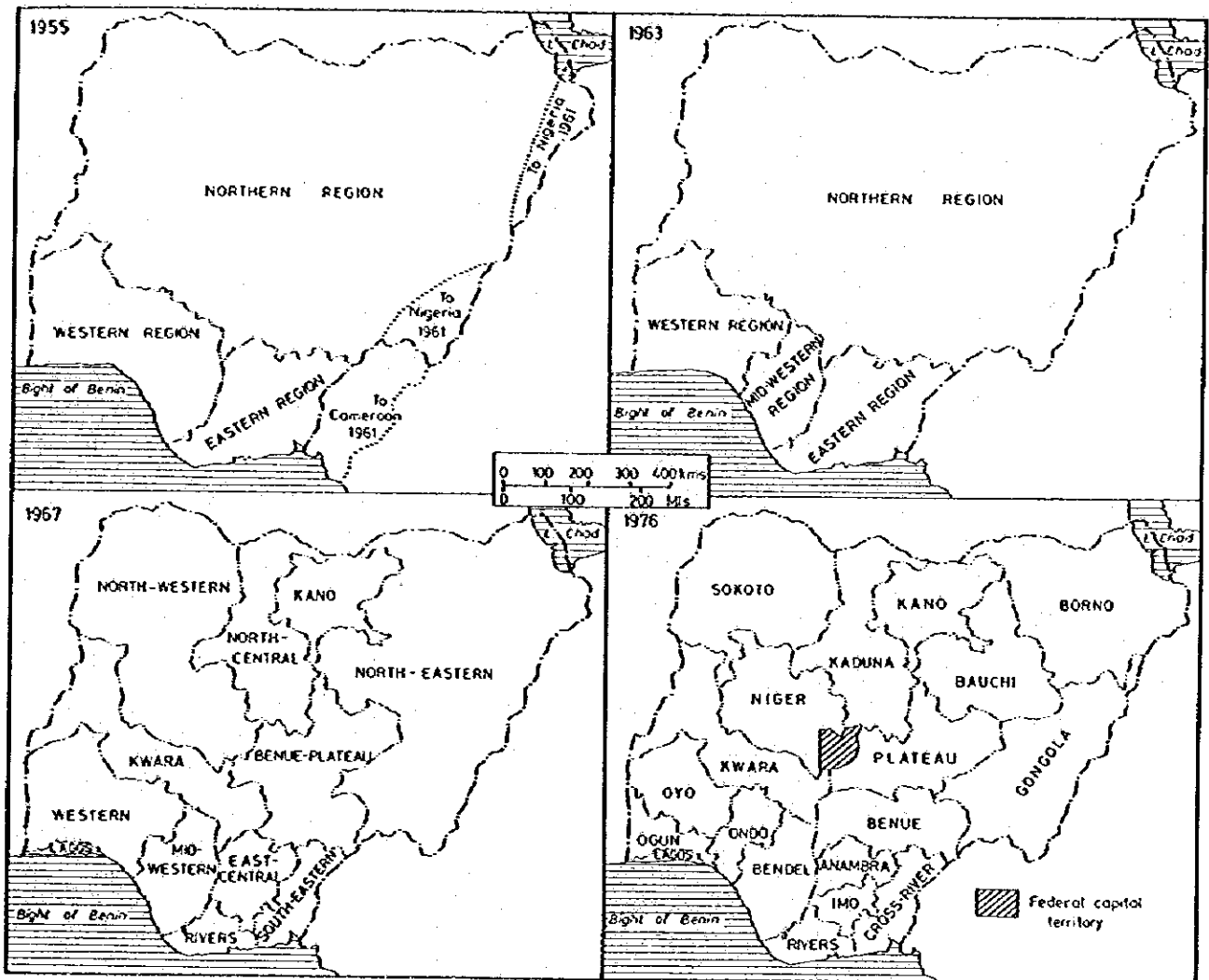
0 50 100 kms
0 50 100 miles

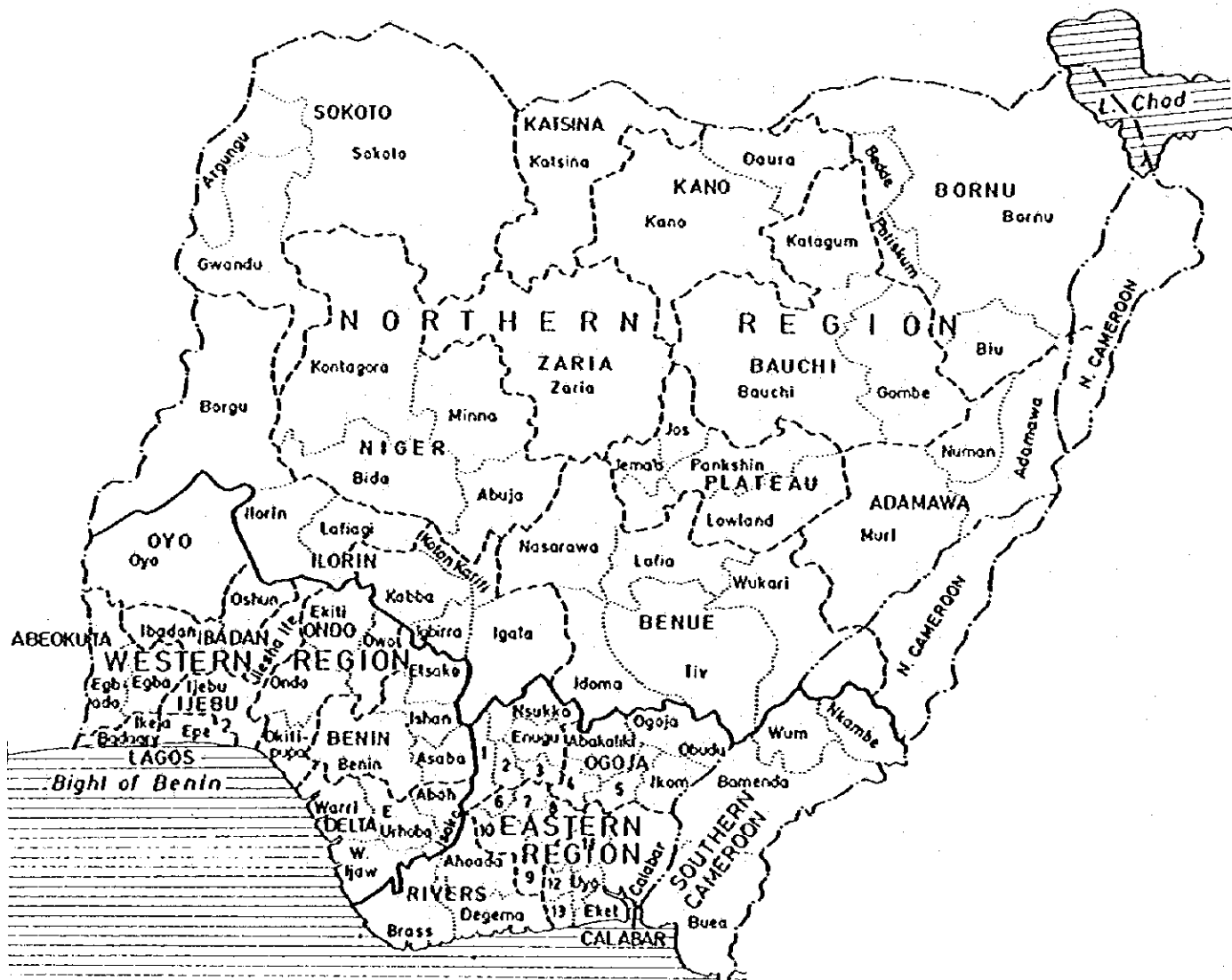
LEGEND

Main road	
Other road	
Track	
Railway	
Oil pipeline	
Ancient or historic site	
Well	
Airport	
International boundary	
Administrative boundary	
Sand dune areas	
Marsh	
Salt areas	
Height in metres	

2. 行政図

(1)

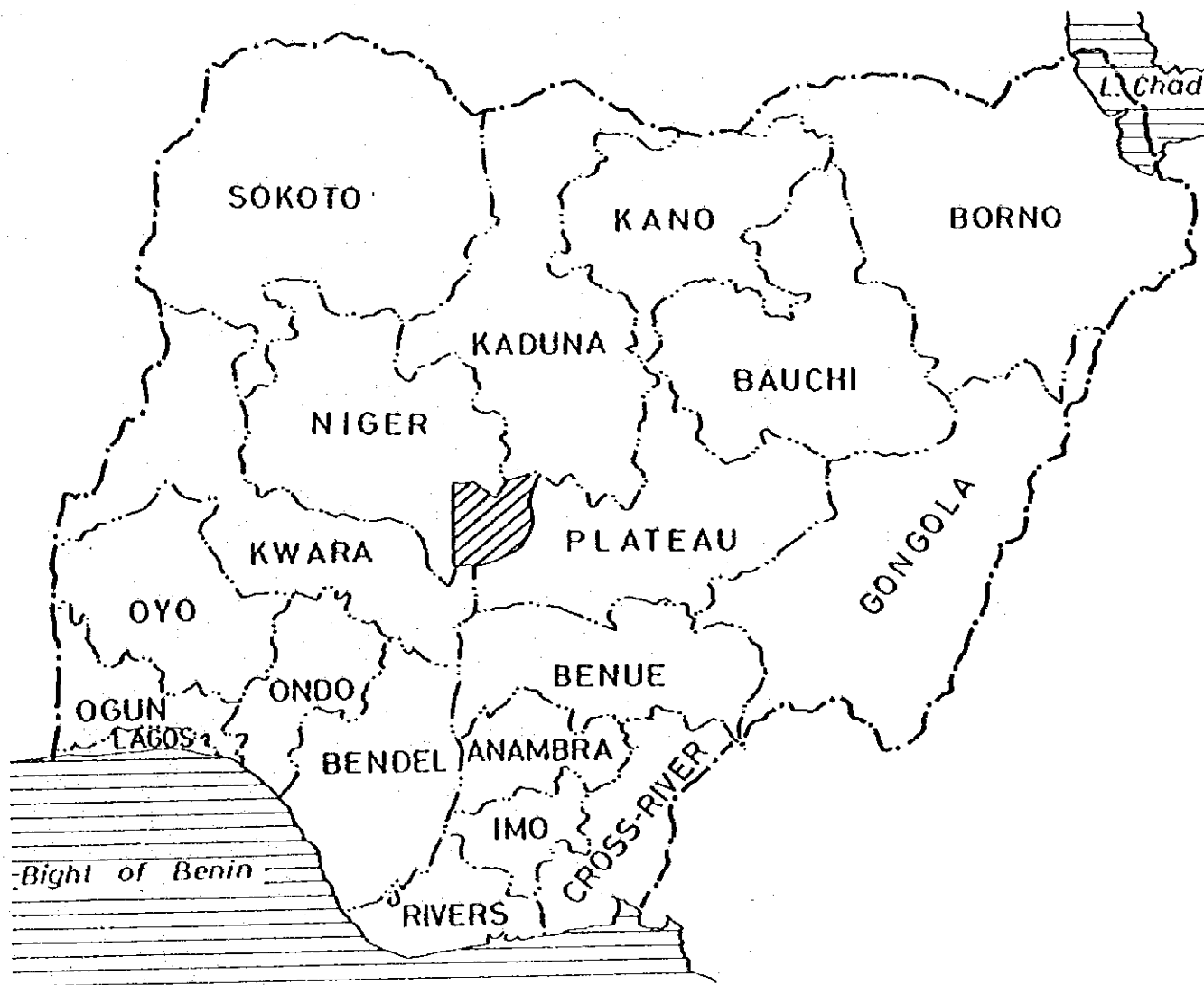


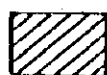


EASTERN REGION
ENUGU PROVINCE

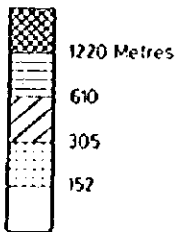
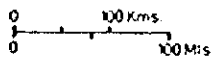
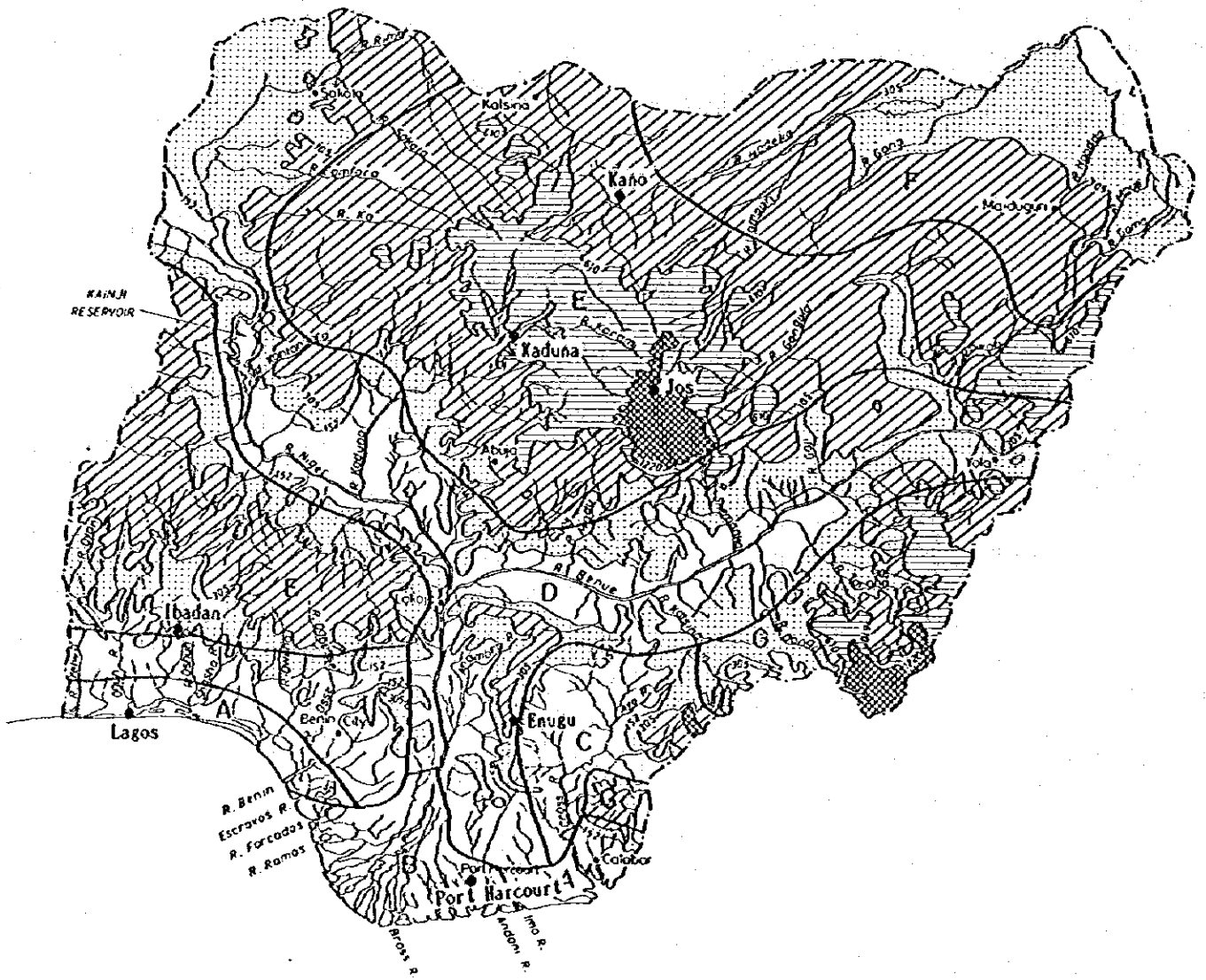
- | | |
|---------------|----------------|
| 1 Onitsha | 8 Bende |
| 2 Awka | 9 Aba |
| 3 Awgu | 10 Owerri |
| OGOJA | CALABAR |
| 4 Afikpo | 11 Ikot Ekpene |
| 5 Obubra | 12 Abak |
| OWERRI | 13 Opobo |
| 6 Orlu | |
| 7 Okigwi | |

行政図・区分の変遷 (3) (現在)

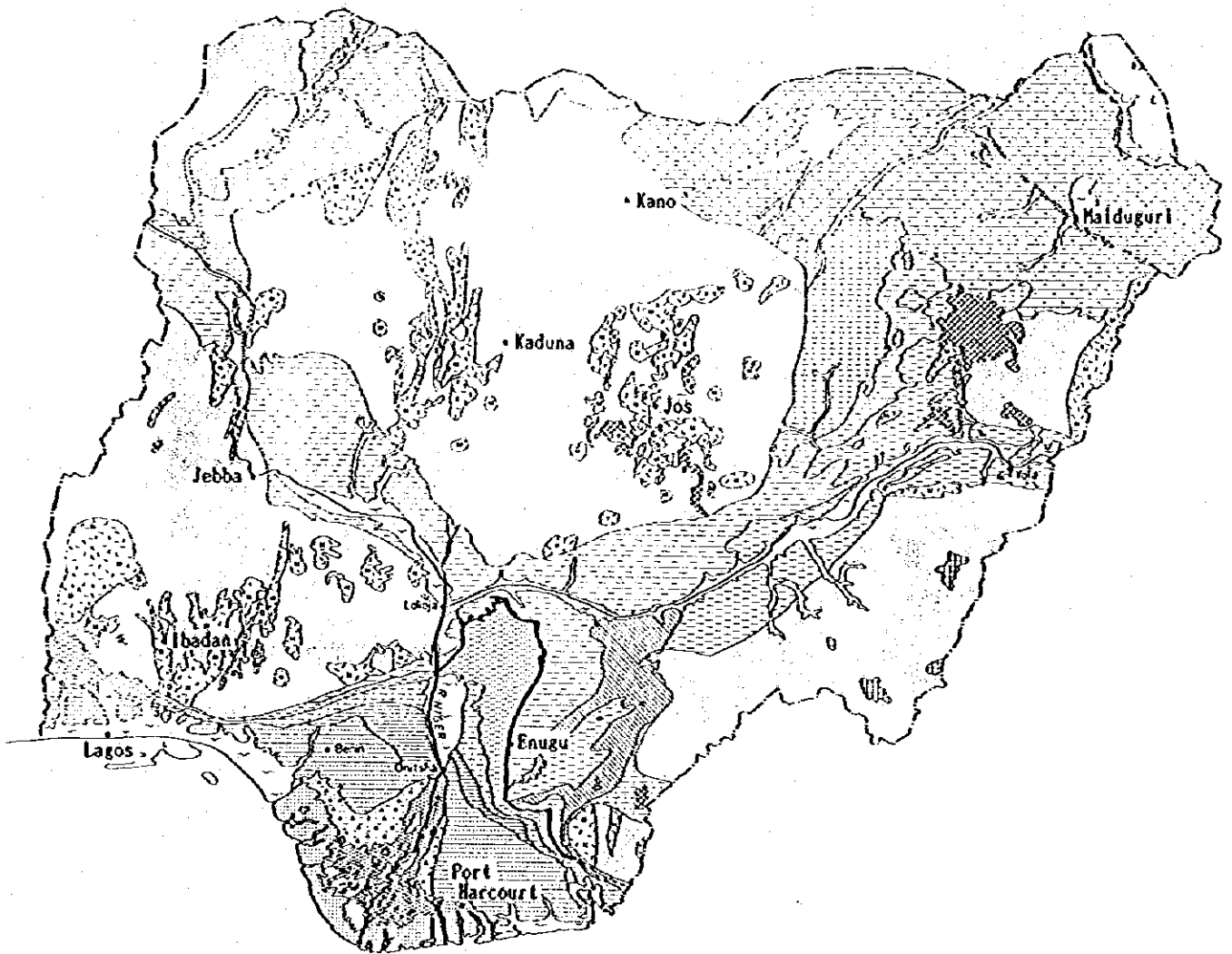


 Federal capital territory

3. 地形図



4. 地質図



0 50 100 kms
0 50 100 Miles

BASIC IGNEOUS ROCKS

■ Newer Basalts etc

▨ Older Basalts

□ Cretaceous Basic Intrusions

ACID IGNEOUS AND METAMORPHIC ROCKS

□ Younger Granites

□ Quartzite and Quartzite Schist Complex

□ Metasediments and Older Granite

□ Undifferentiated Igneous and Metamorphic Rocks

CENOZOIC (TERTIARY) SEDIMENTARY ROCKS

▨ Pliocene - Pleistocene: Chad Formations

▨ Oligocene - Pleistocene Coastal Plain Sands

▨ Eocene: Bende, Araki and Ilaro Formations

▨ Palaeocene: Sokoto, Kerri Kerri, Nwo and Ewekoro Formations

MESOZOIC (SECONDARY) SEDIMENTARY ROCKS

▨ Upper Coal Measures and Abeokuta Formation inc False Bedded Sandstones

▨ Lower Coal Measures

▨ Turonian - Senonian: Gundume, Ilo, Nupe, Rima, Yola & Combe Formations; Awgu Ndeaboh & Asata Nkporo Shale Groups

▨ Cenomanian - Turonian: Eze Aku Shale Group

▨ Albian - Cenomanian: Brna, Yola, Asu River and Odutpani Formations

RECENT (HOLOCENE) SEDIMENTARY ROCKS

□ Freshwater and Back Swamp Deposits

□ Longshore Deposits (underwater)

▨ Beach Ridge Deposits

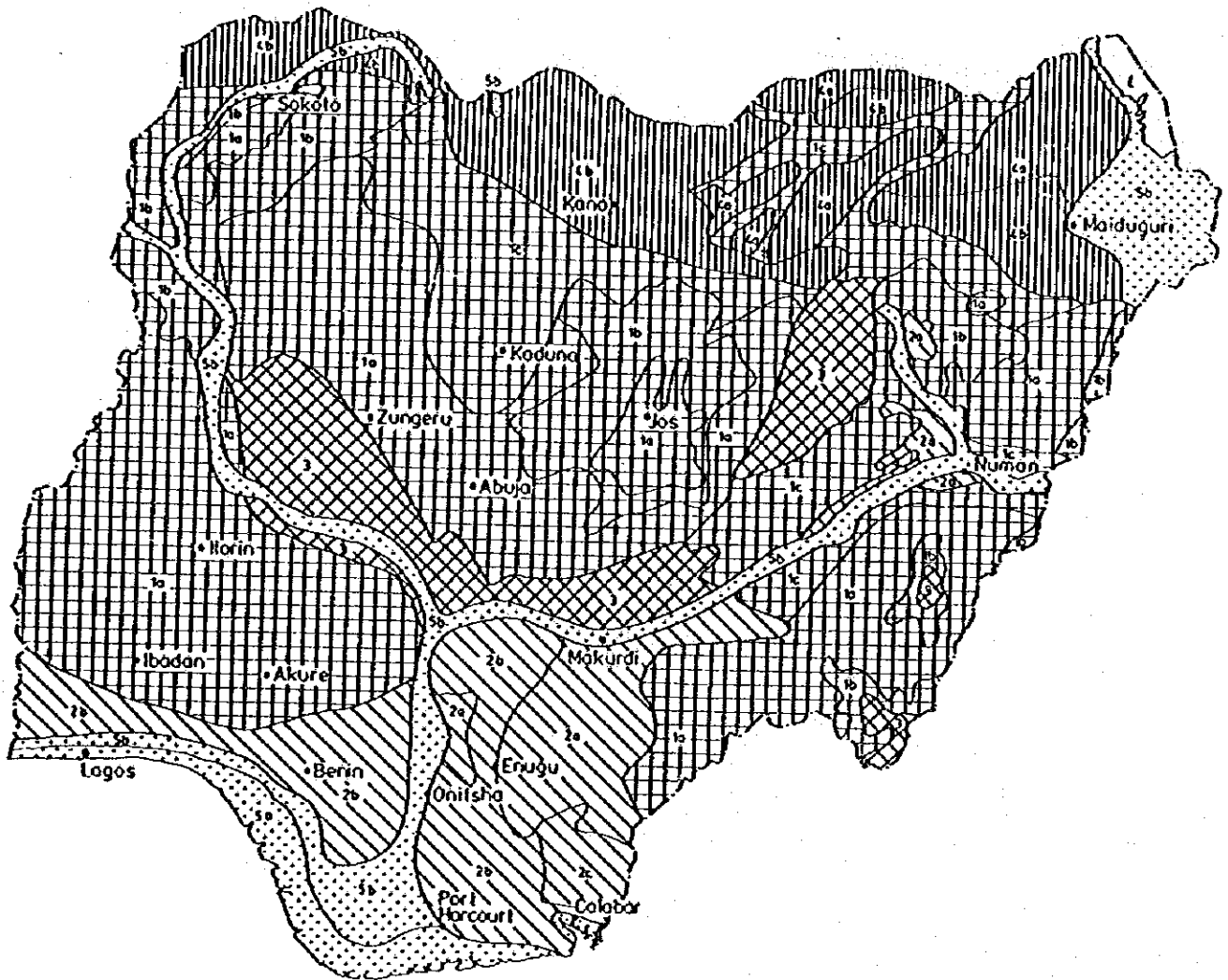
□ Alluvium

▨ Meander Belt and Swamp Deposits

▨ Abandoned Beach Ridges and Mangrove Swamps

▨ Deltaic Plain

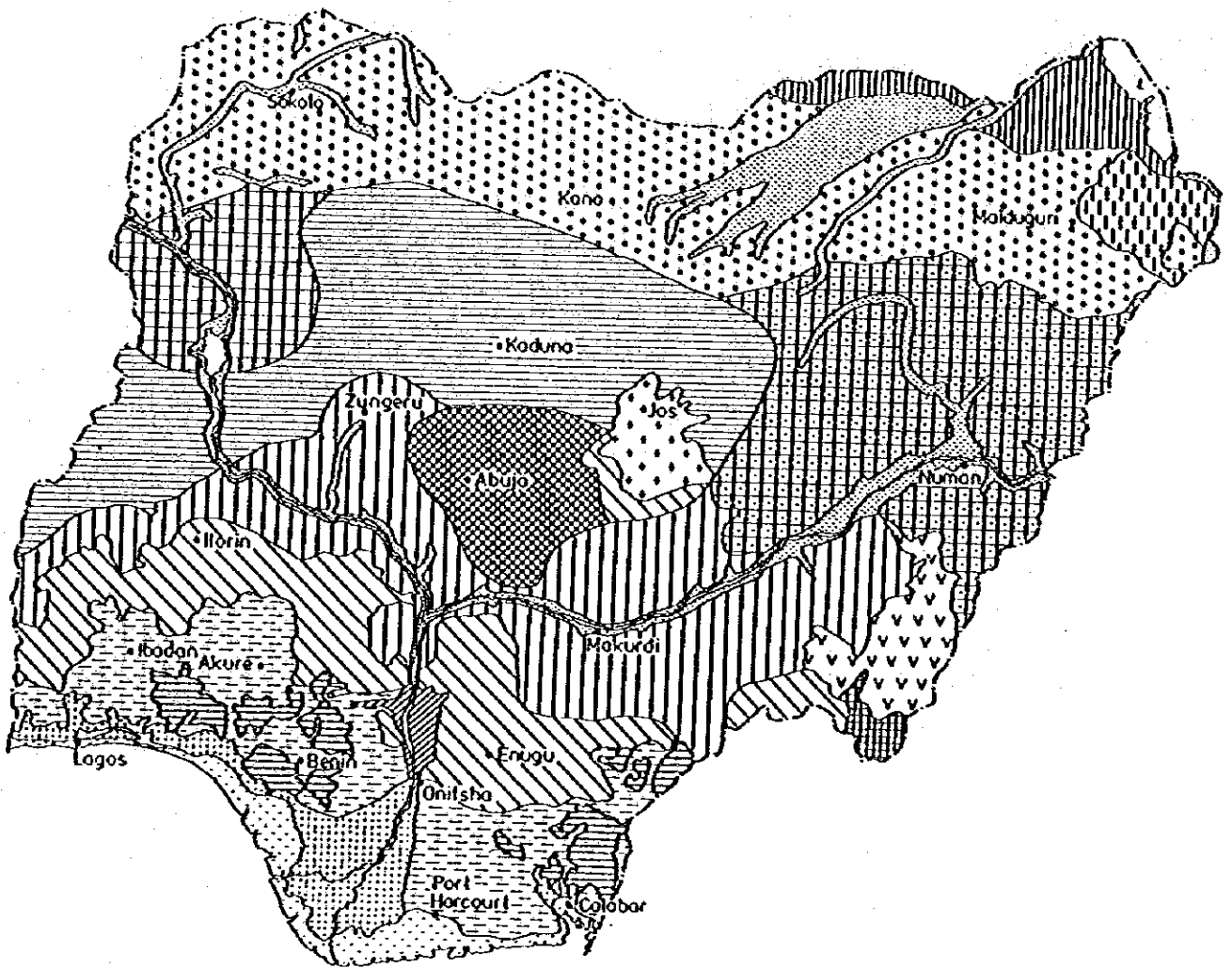
5. 土壤図



0 50 100 kms
0 50 100 Miles

- 1 MAINLY FERRUGINOUS TROPICAL SOILS**
 (a) On crystalline acid rocks
 (b) Lithosols on ferruginous crusts
 (c) Lithosols on sandy material
- 2 FERRALSOLS**
 (a) Red
 (b) Red-Yellow
 (c) Yellow
- 3 FERRISOLS**
- 4 WEAKLY DEVELOPED SOILS**
 (a) Regosols
 (b) Brown and Reddish Brown soils
- 5 HYDROMORPHIC AND ALLUVIAL SOILS**
 (a) Marine and saline
 (b) Riverine and brackish

6. 植生図

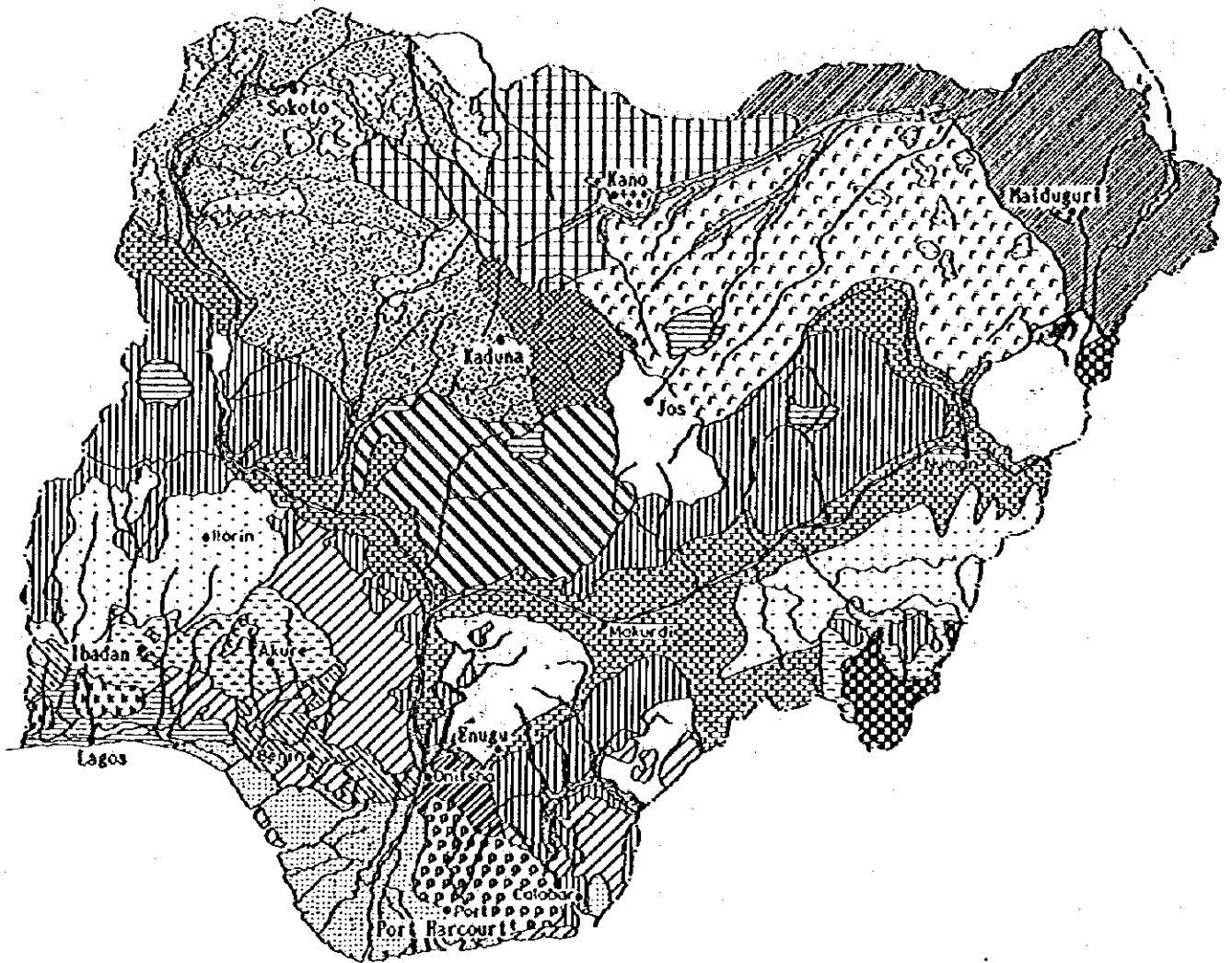






















- | | | | |
|--|--|--|------------------------------|
| | Coastal Forest and Mangrove | | Mixed Combretaceous Woodland |
| | Deltaic Swamp Forest | | Wooded Savanna |
| | Swamp Forest / Wooded Savanna | | Mixed Wooded Savanna |
| | Secondary Forest | | Flood Plain Complex |
| | Mixed Leguminous Wooded Savanna | | Forest Savanna Mosaic |
| | Isoberlinia Savanna | | Sorghum Grass Savanna |
| | Leguminous Wooded Savanna with Plateau Grass | | Burkia africana Savanna |
| | Afzelia Savanna / Semi-Deciduous Forest | | Wooded Tropical Steppe |
| | Plateau Grass Savanna | | Moist Lowland Forest |



- 1 Coastal Forest and Mangrove
- 2 Forest
- 3 Forest-Savanna Mosaic
- 4 Burkia africana
- 5 Montane
- 6 Sudan Savanna
- 7 Sahel

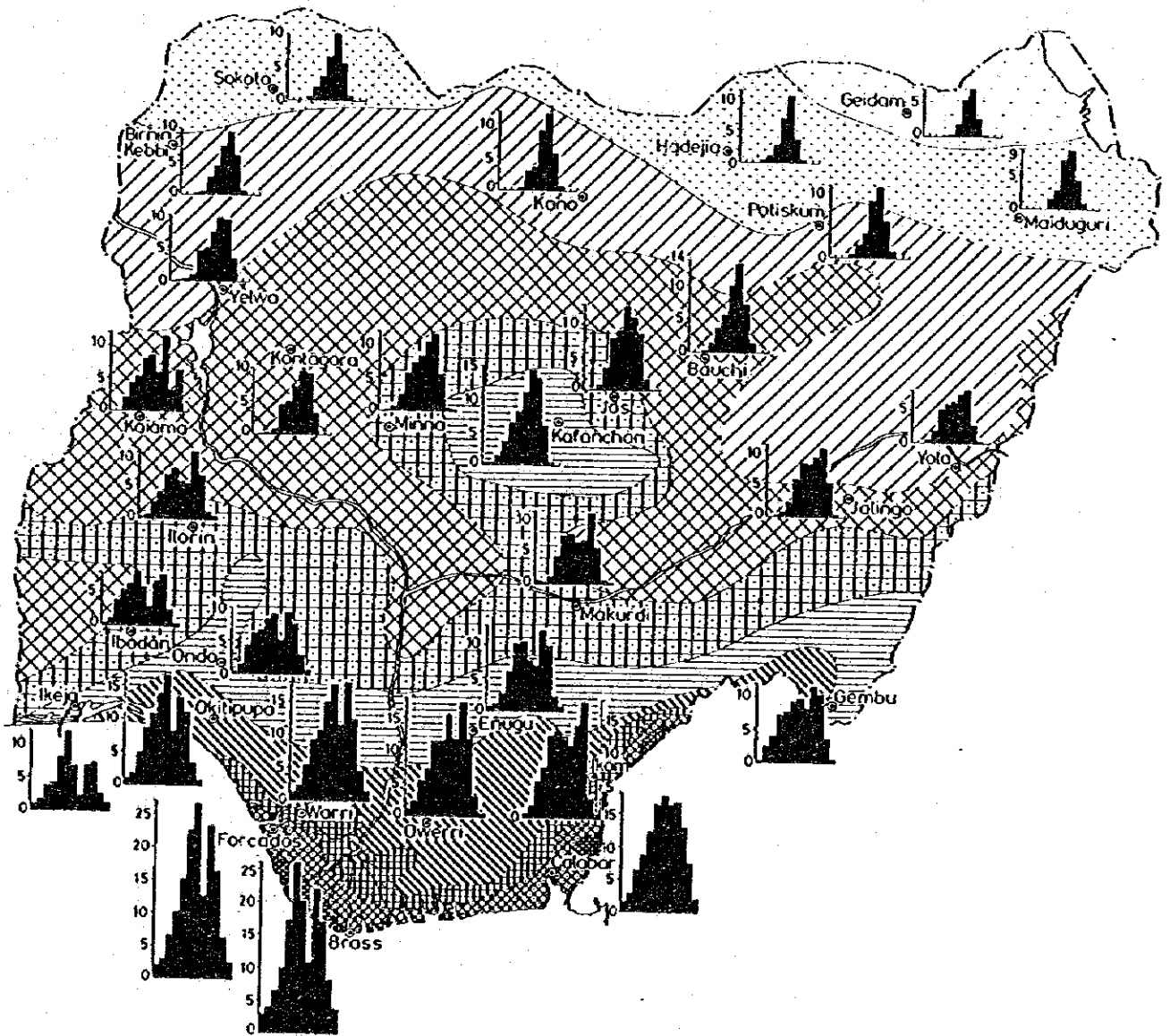
7. 土地利用形態図



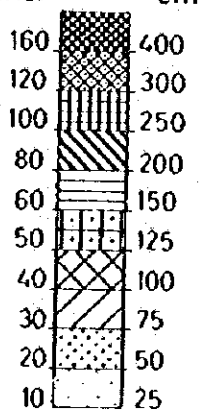
- | | | |
|---|--|---|
|  Coastal swamps and forests |  Fairly intensively cultivated and grazed open (upland) grasslands |  Floodland agriculture |
|  High forest |  Palm bush |  Intensively cultivated savanna grasslands-mainly tobacco and cotton |
|  Coastal thicket with cultivated patches |  Intensively cultivated with reduced fallows |  Intensively cultivated Sudan savanna-mainly groundnut |
|  Secondary forest regrowth |  Guinea savanna and riparian vegetation and scattered Fadama |  Intensively cultivated Sudan savanna-mixed |
|  Kola, cocoa and mixed forest |  Game reserves |  Scrubland extensively grazed and irrigation agriculture |
|  Predominantly cocoa |  Dry season grazing <i>Altelia africana</i> woodland |  Open, low savanna woodland used mainly for firewood and grazing reserves |
|  Mixed tree and root crops and forest mosaic |  Permanent cultivation | |
|  Cultivated derived savanna grasslands |  Montane area for grazing and cultivation | |
|  Guinea savanna woodland and dry forest mosaic |  Rough savanna landscape with extensive open grazing and some cultivation | |

8. 気象図 (1)

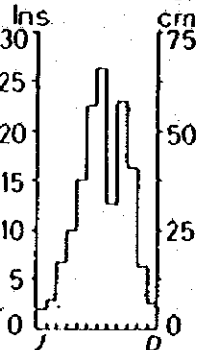
(1)



MEAN ANNUAL
Ins. cm

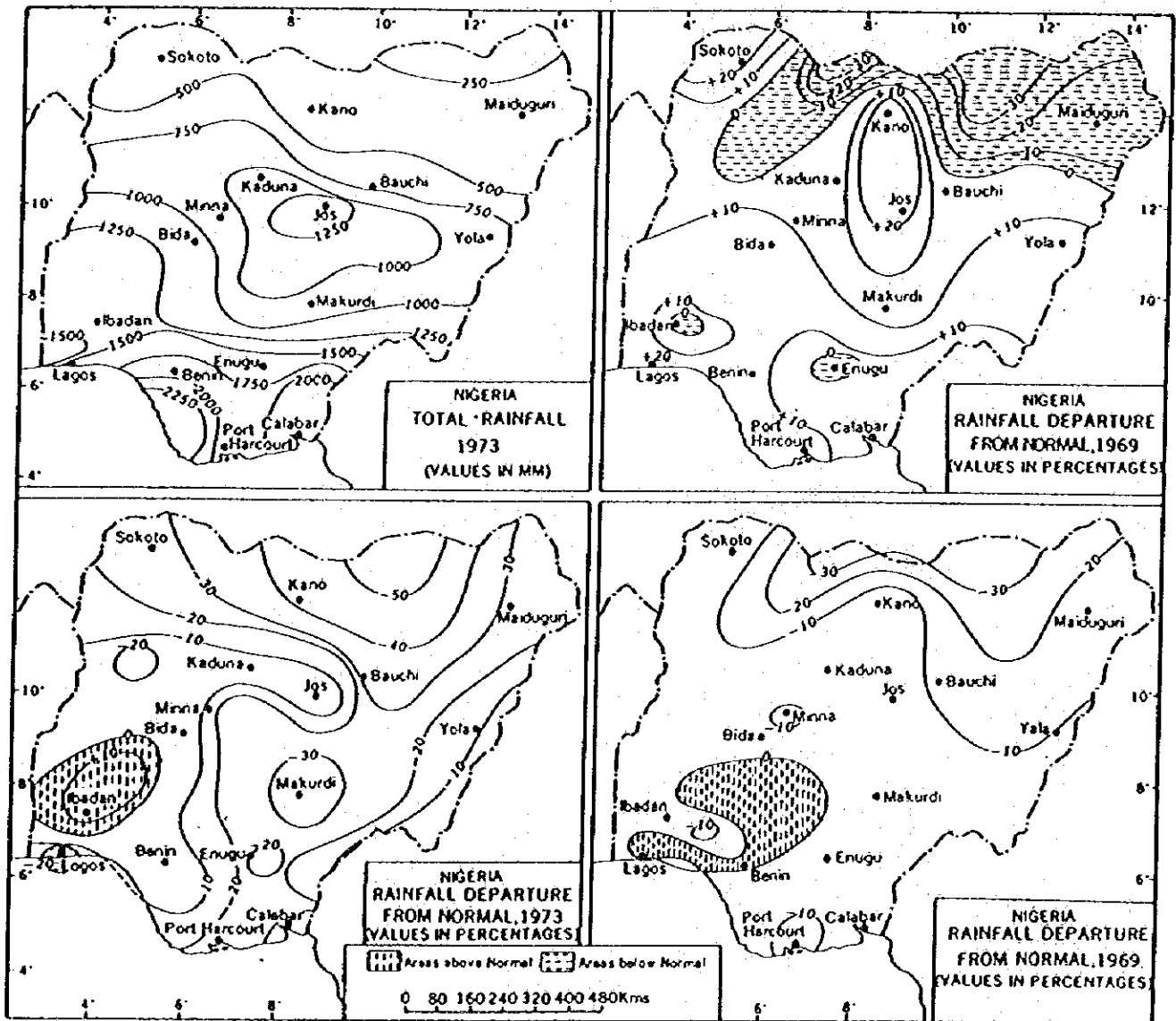


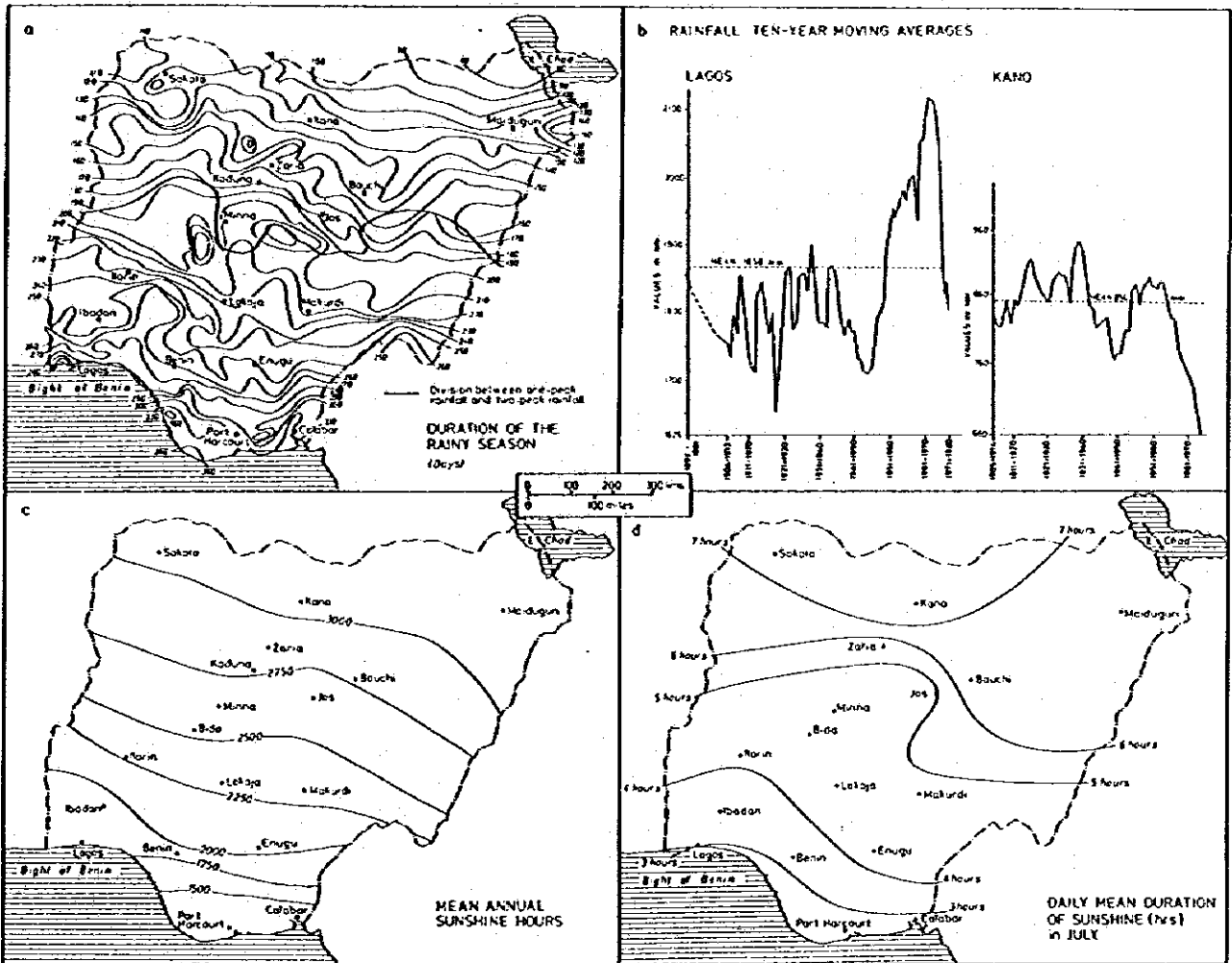
MEAN MONTHLY

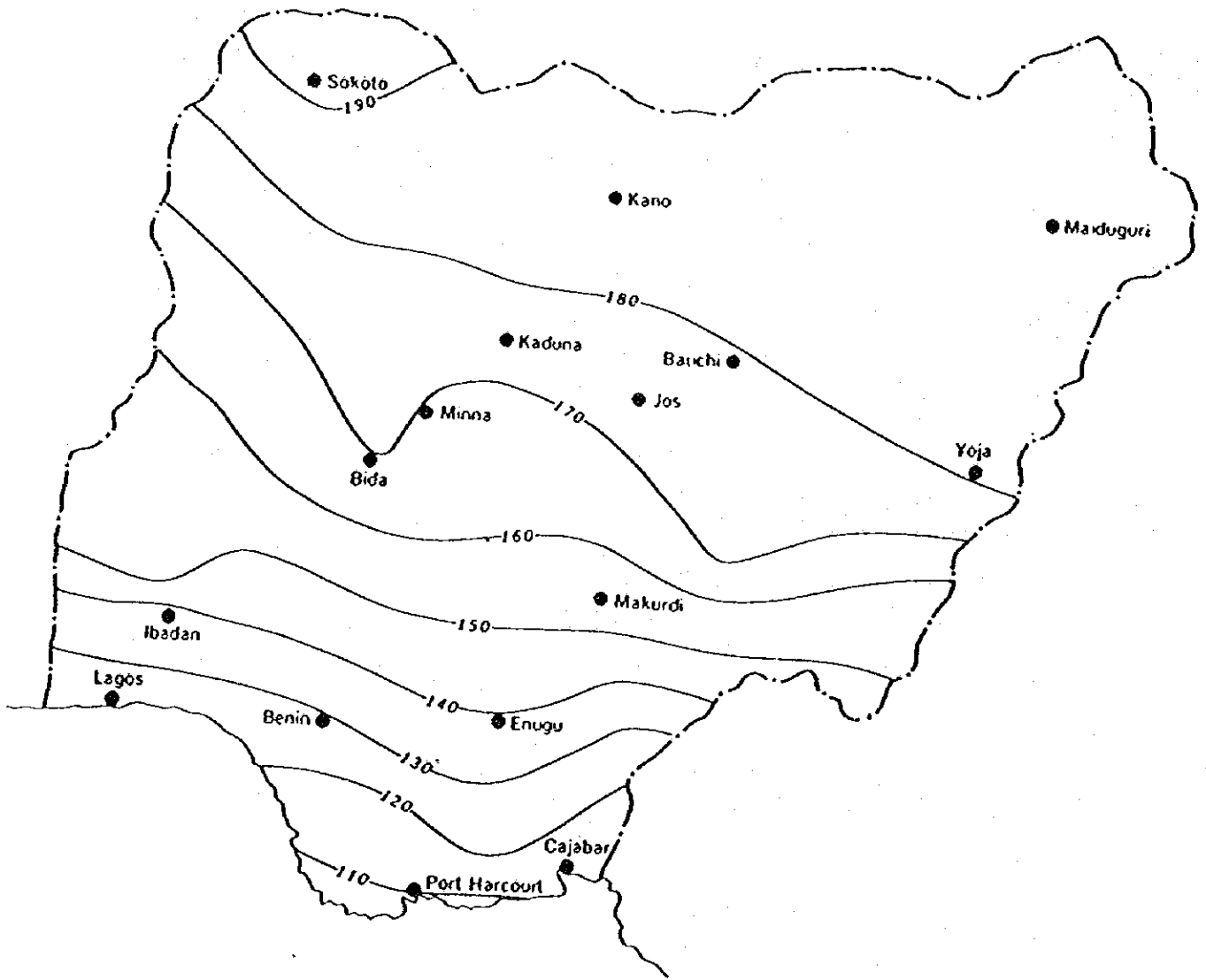


気象図

(2)







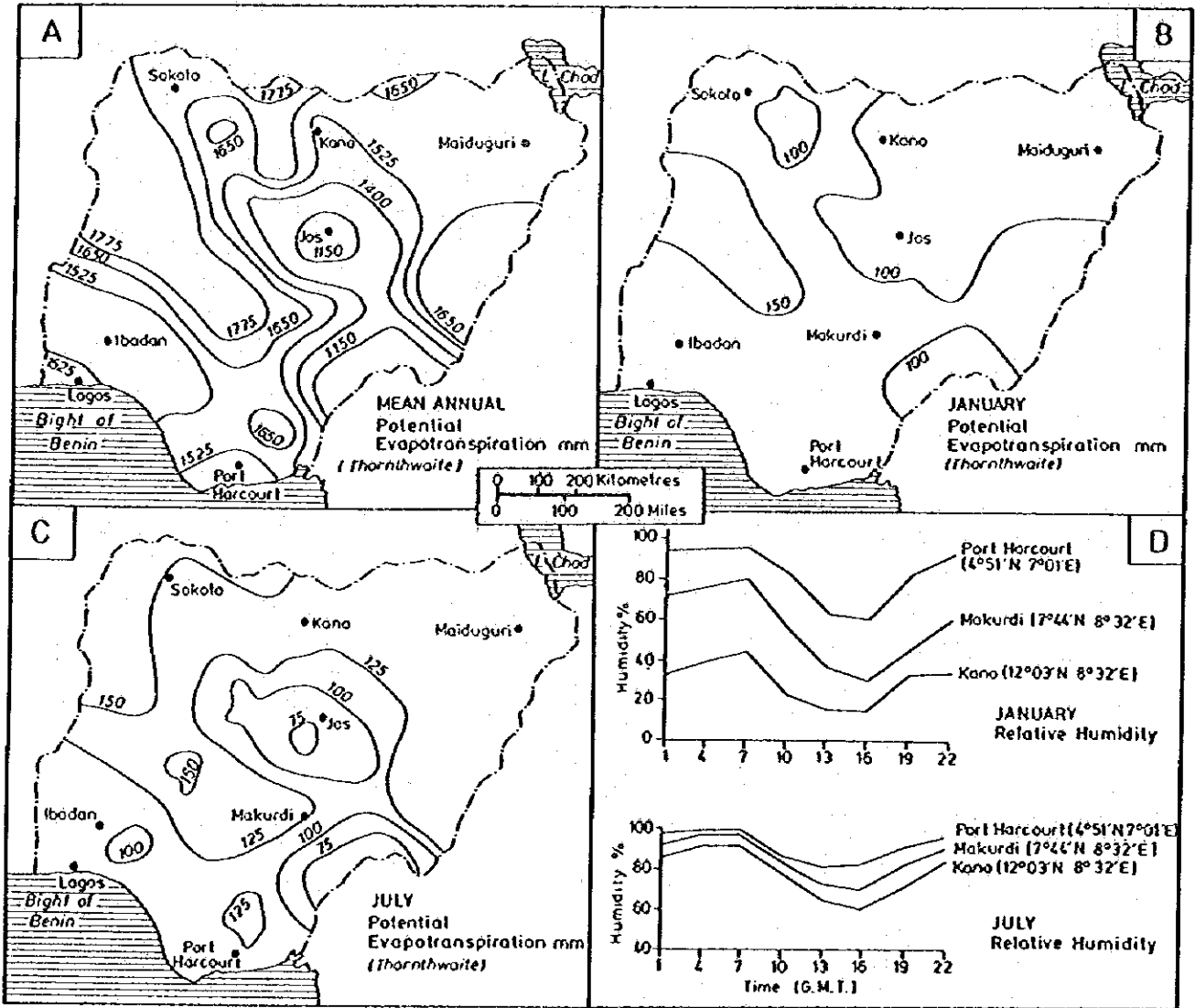
MEAN ANNUAL
RADIATION

Kg cal/cm²/year

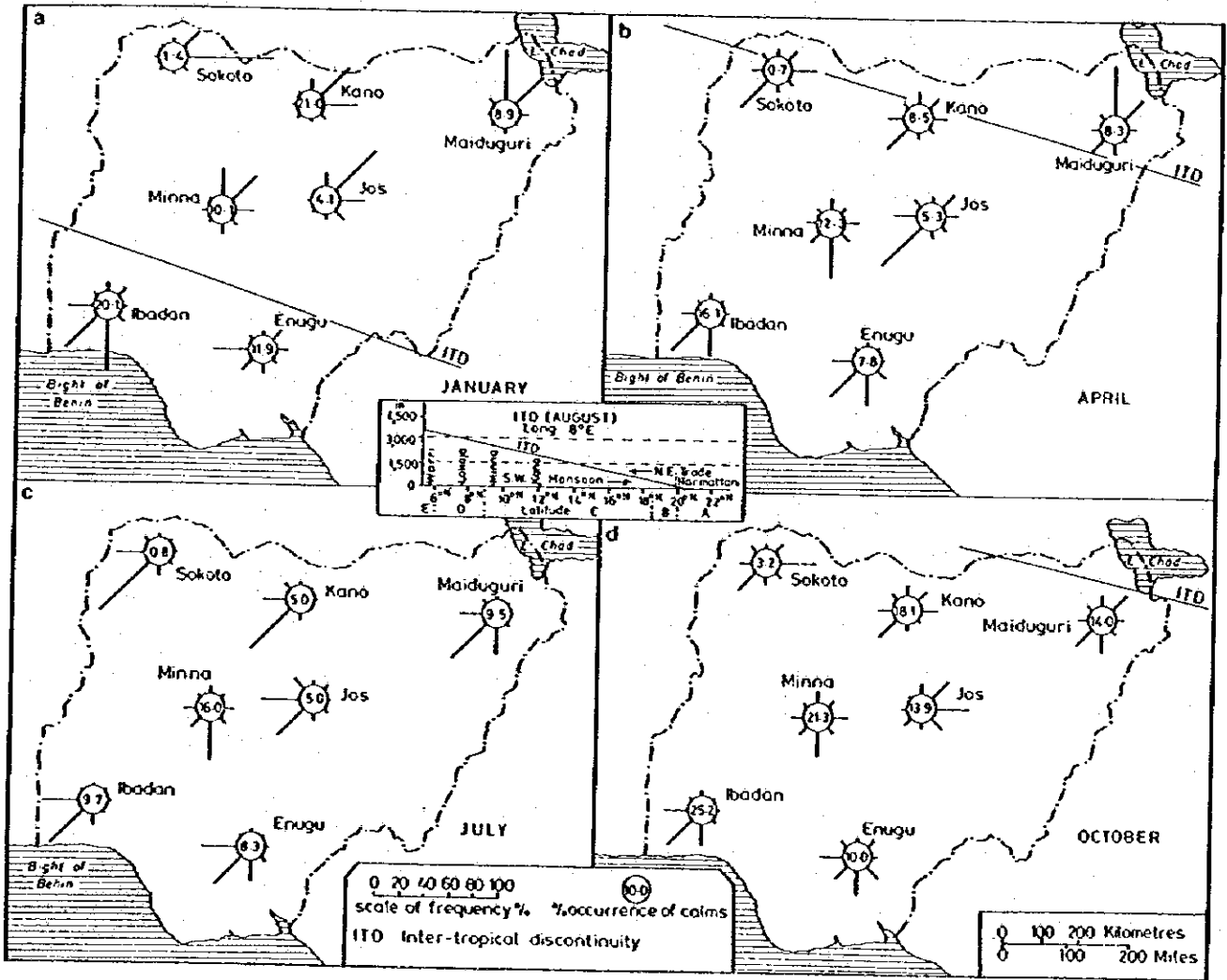
気象図（日射量） (5)



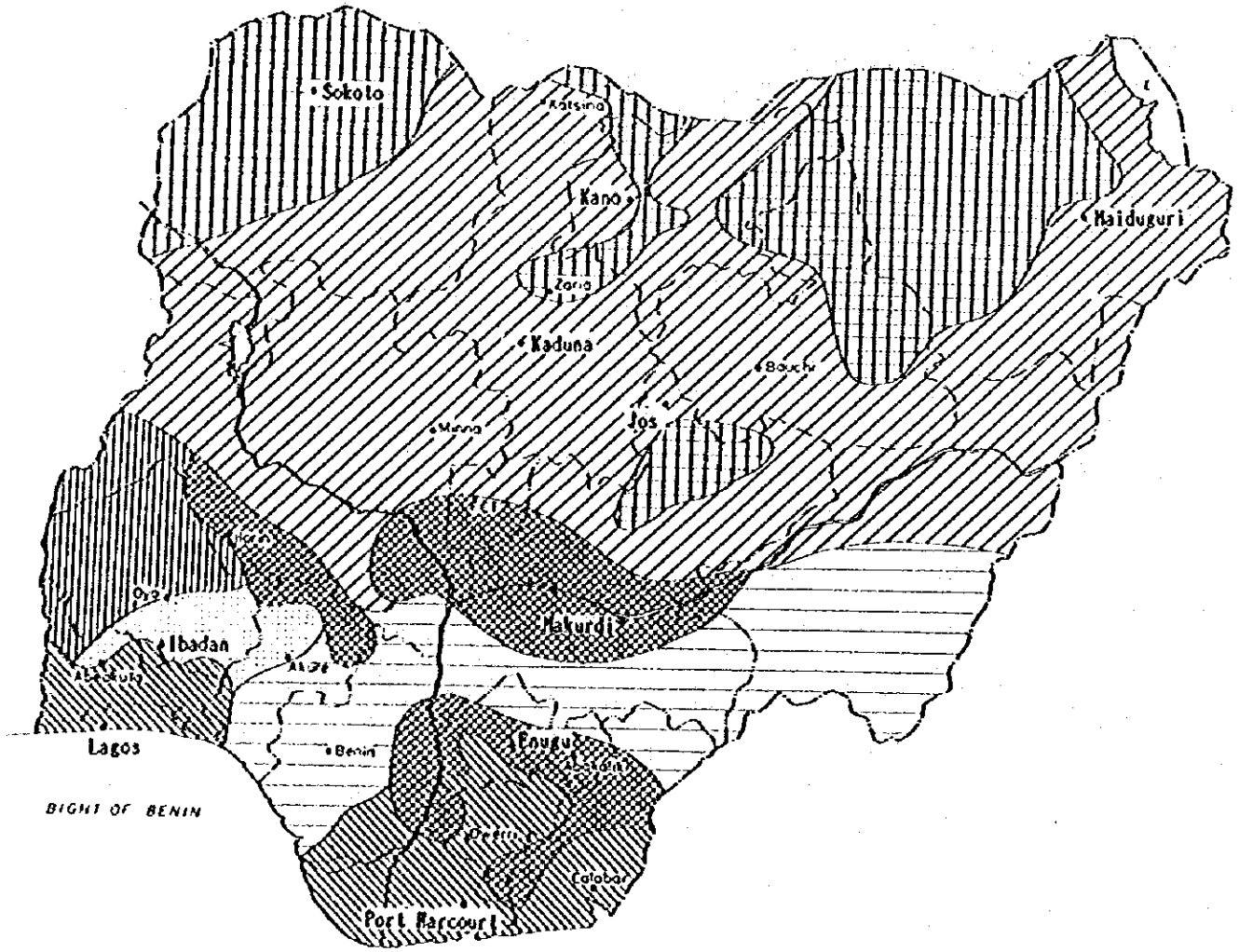
数字は年間平均日射時間を表示



9. 風向図



10. 農作物形態図

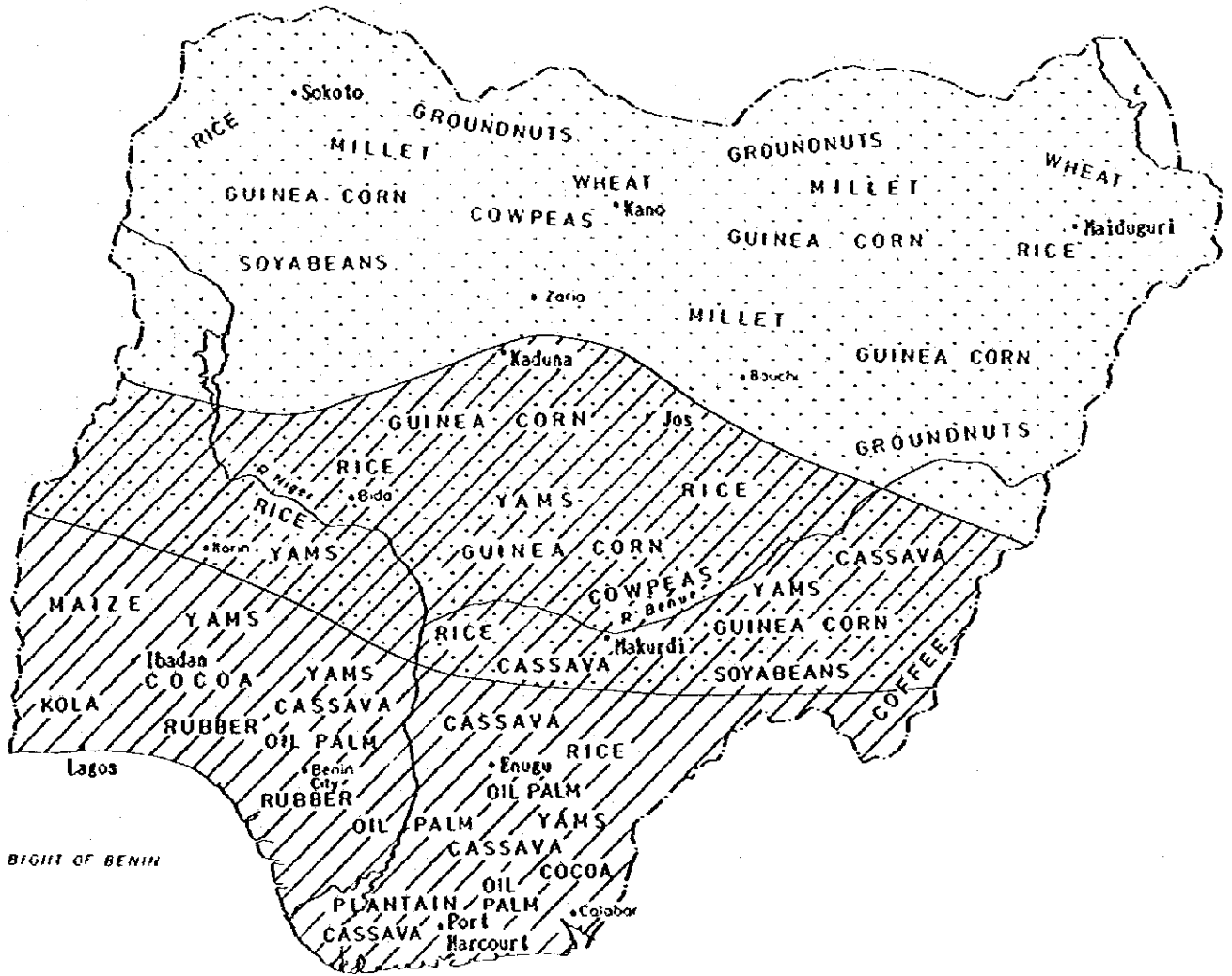





FCI Federal Capital Territory

- [] Millet
- [/] Guinea corn
- [X] Yams
- [\] Cassava
- [||] Cereals / Roots
- [] Mixed crops
- [] Other crops / Cocoa

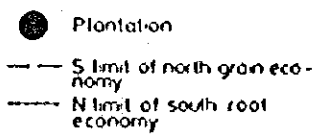
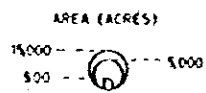
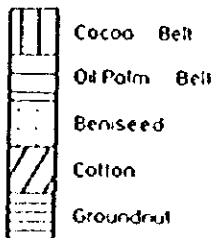
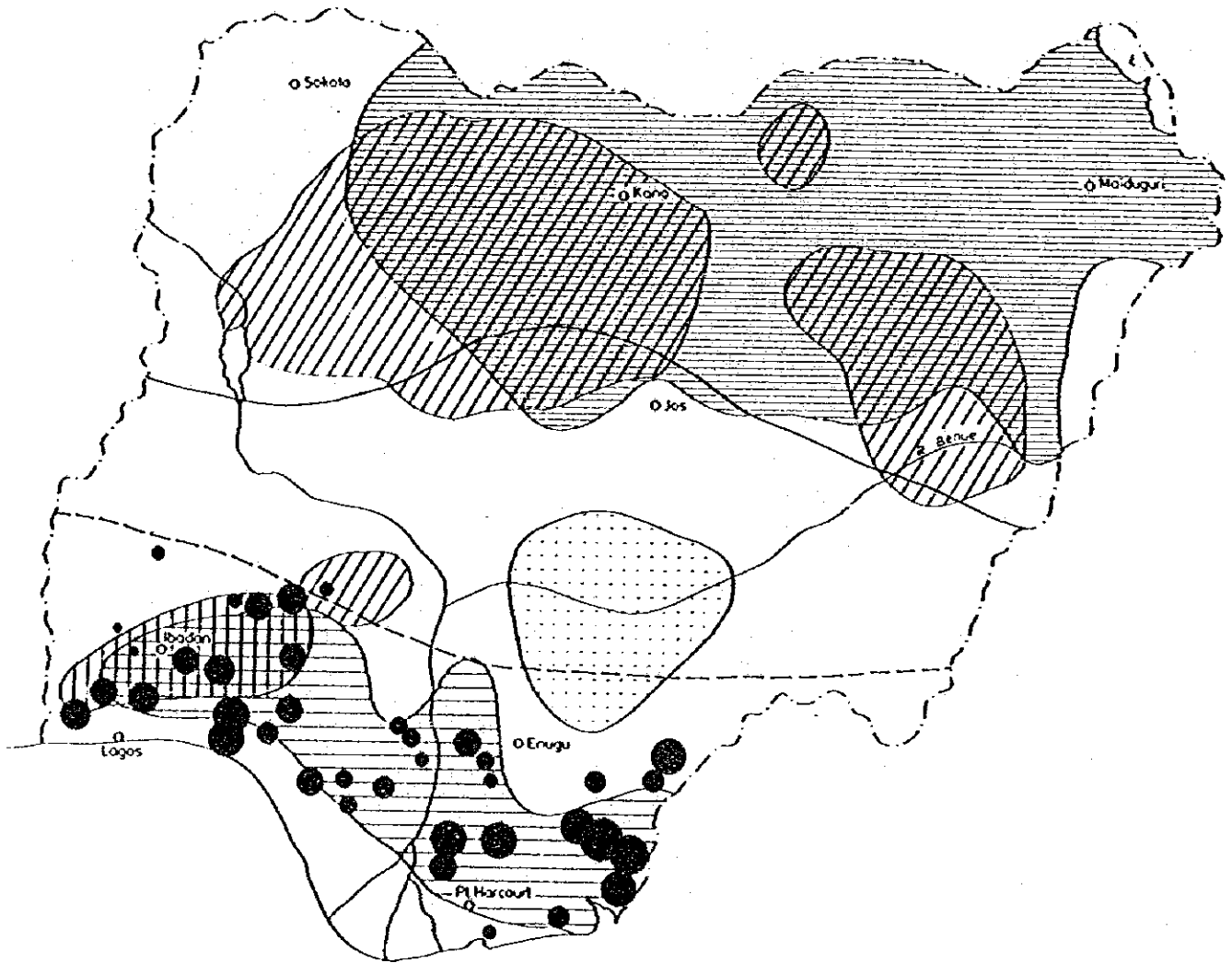
after SA Ajboola 1979 p. 78

11. 穀物産地図

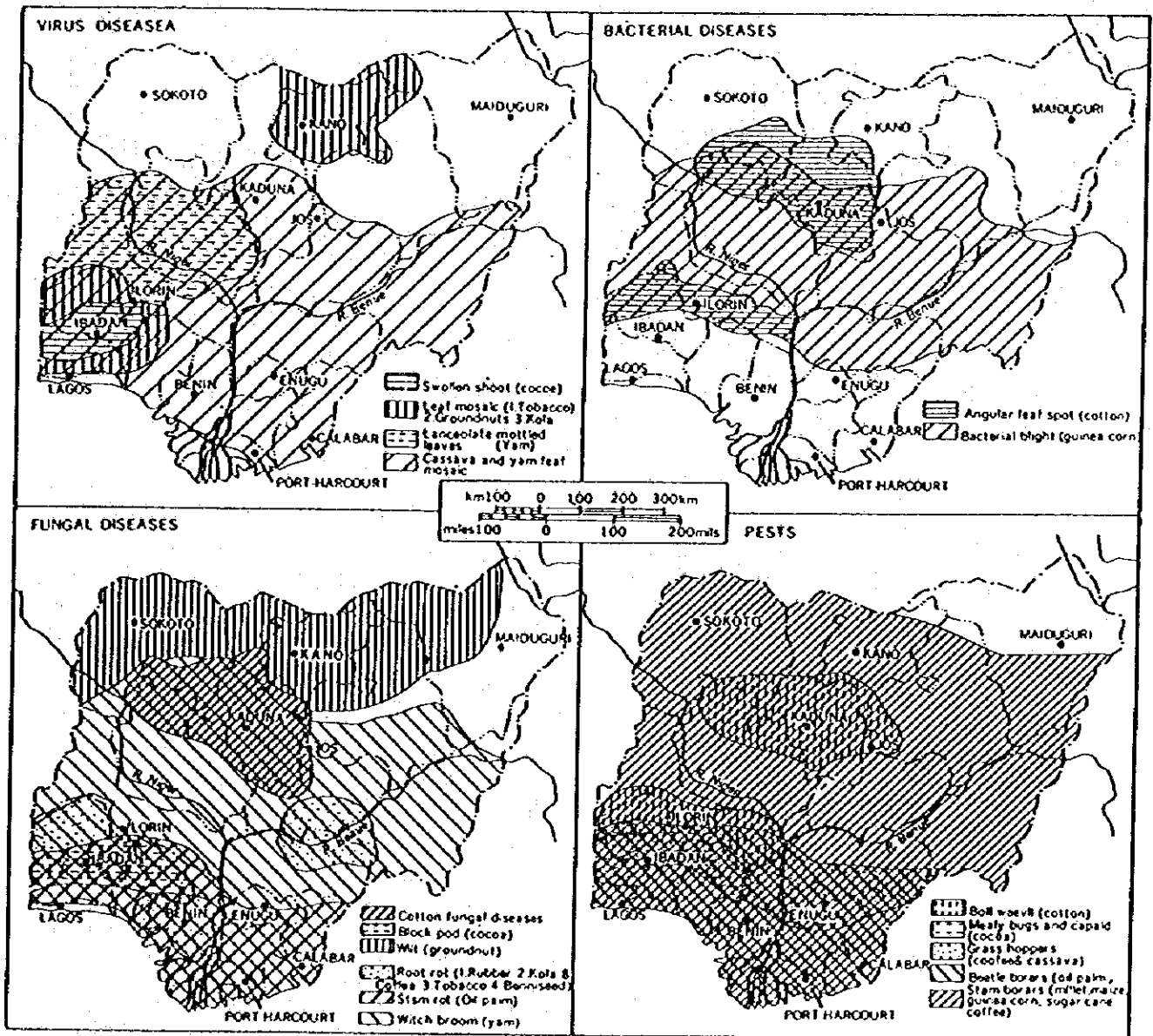


-  Southern tree and root crop zone
-  Mixed root crop and grain zone
-  Northern grain zone

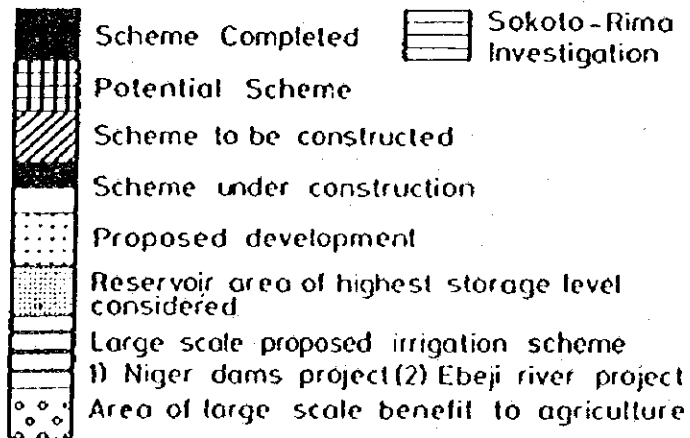
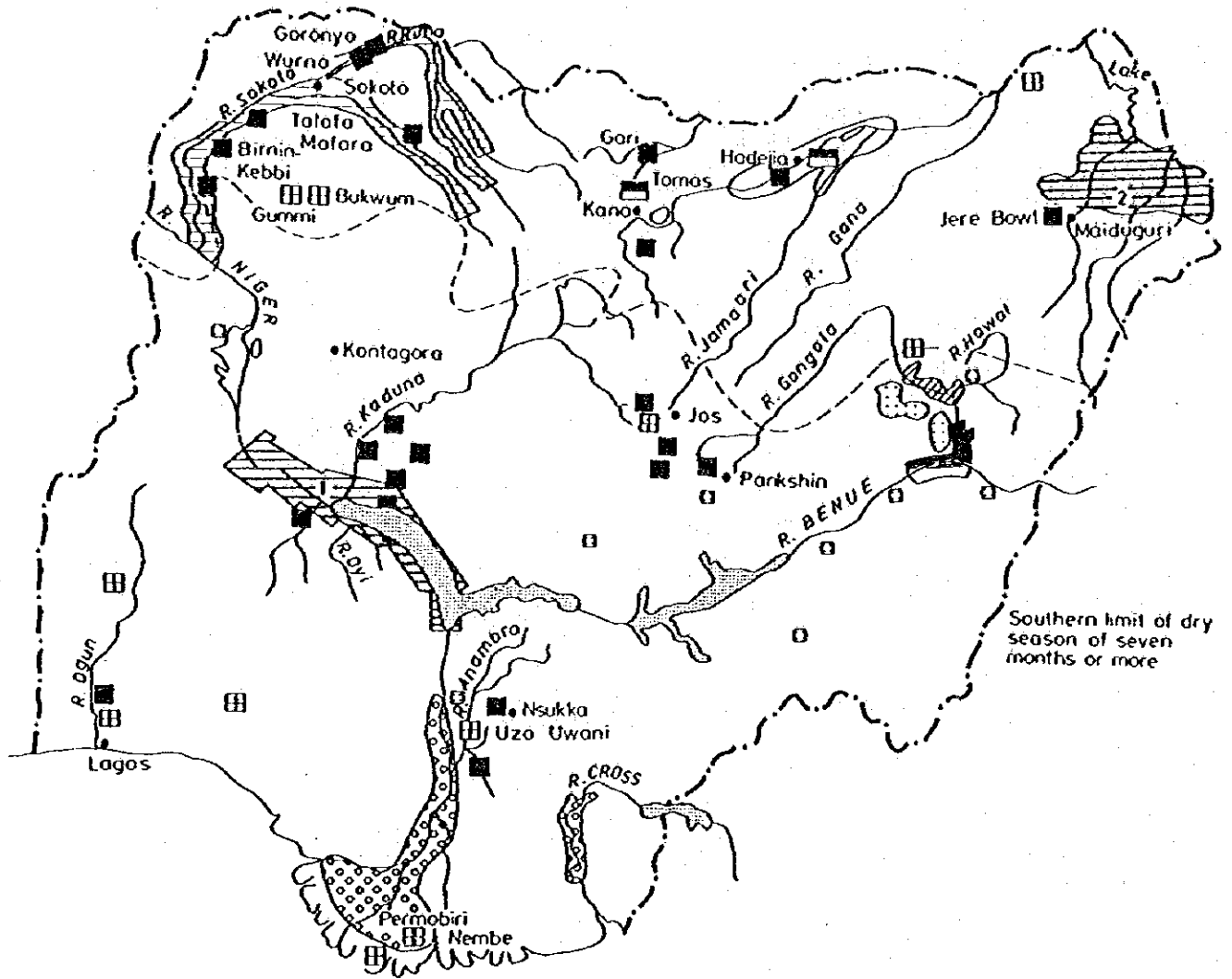
12. 農産物生態図



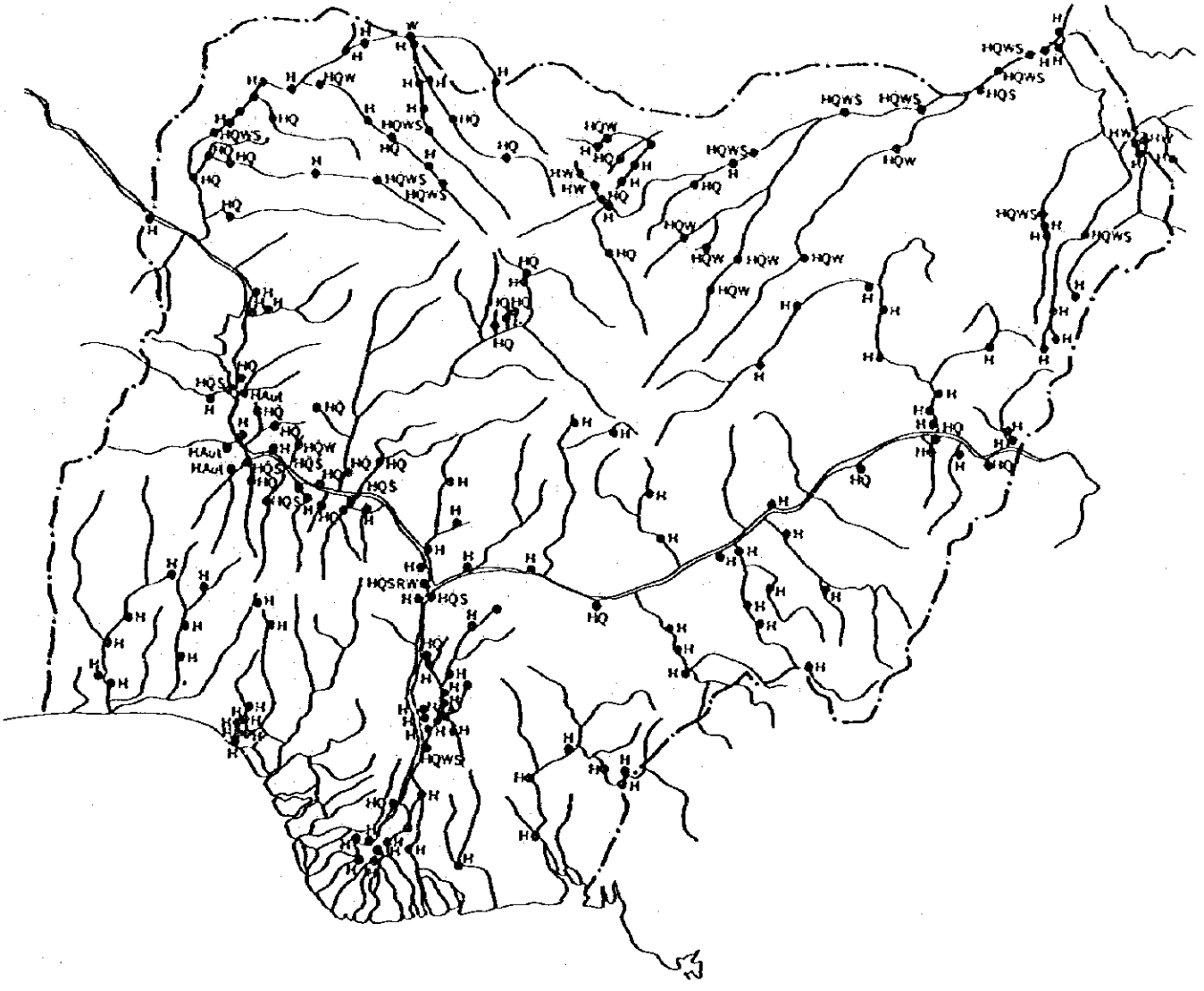
Distribution of some Plant diseases



13. かんがい施工地域 (1).

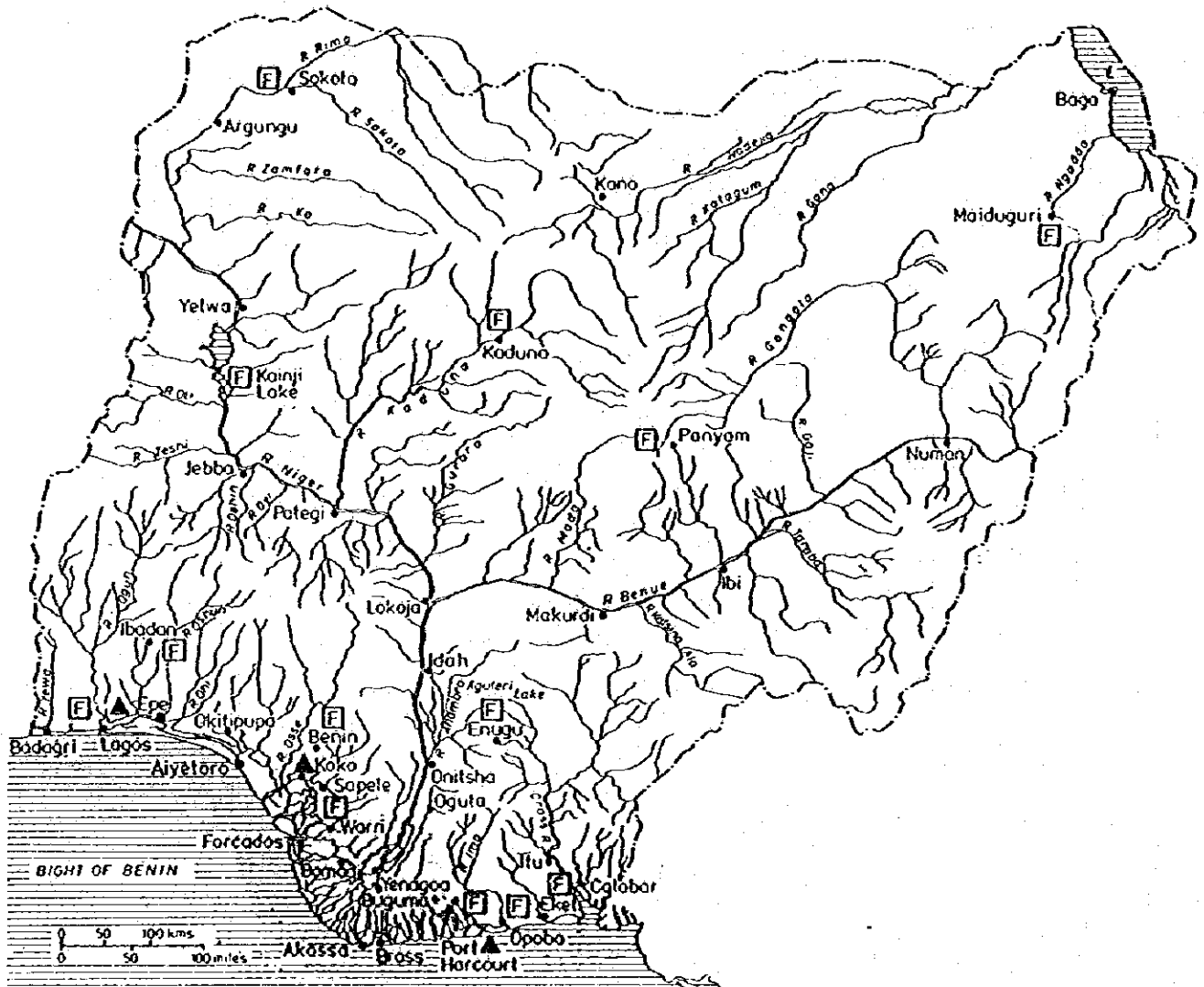


水文観測地点 (2)

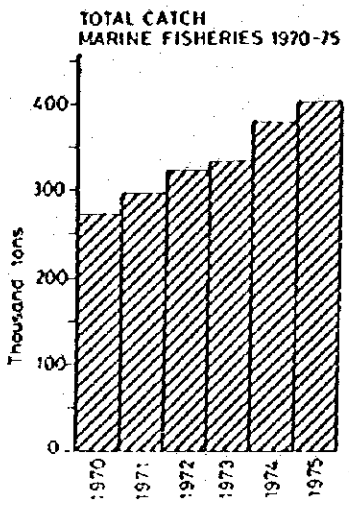
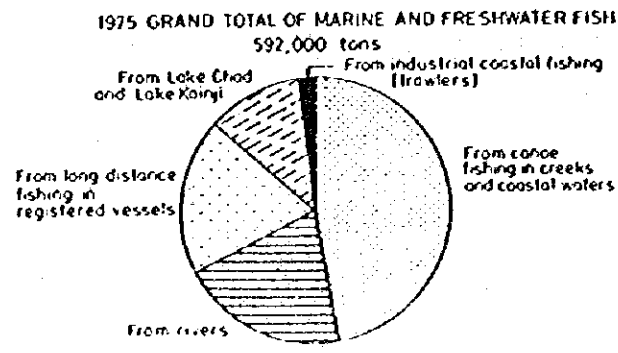


- International Boundary
- River
- Gauging Station
- H Station with water level
- Q Station with discharge measurement
- S Station with sand and suspended load measurement
- R Station with rainfall measurement
- W Station with water quality
- HAut Station with water level automatic

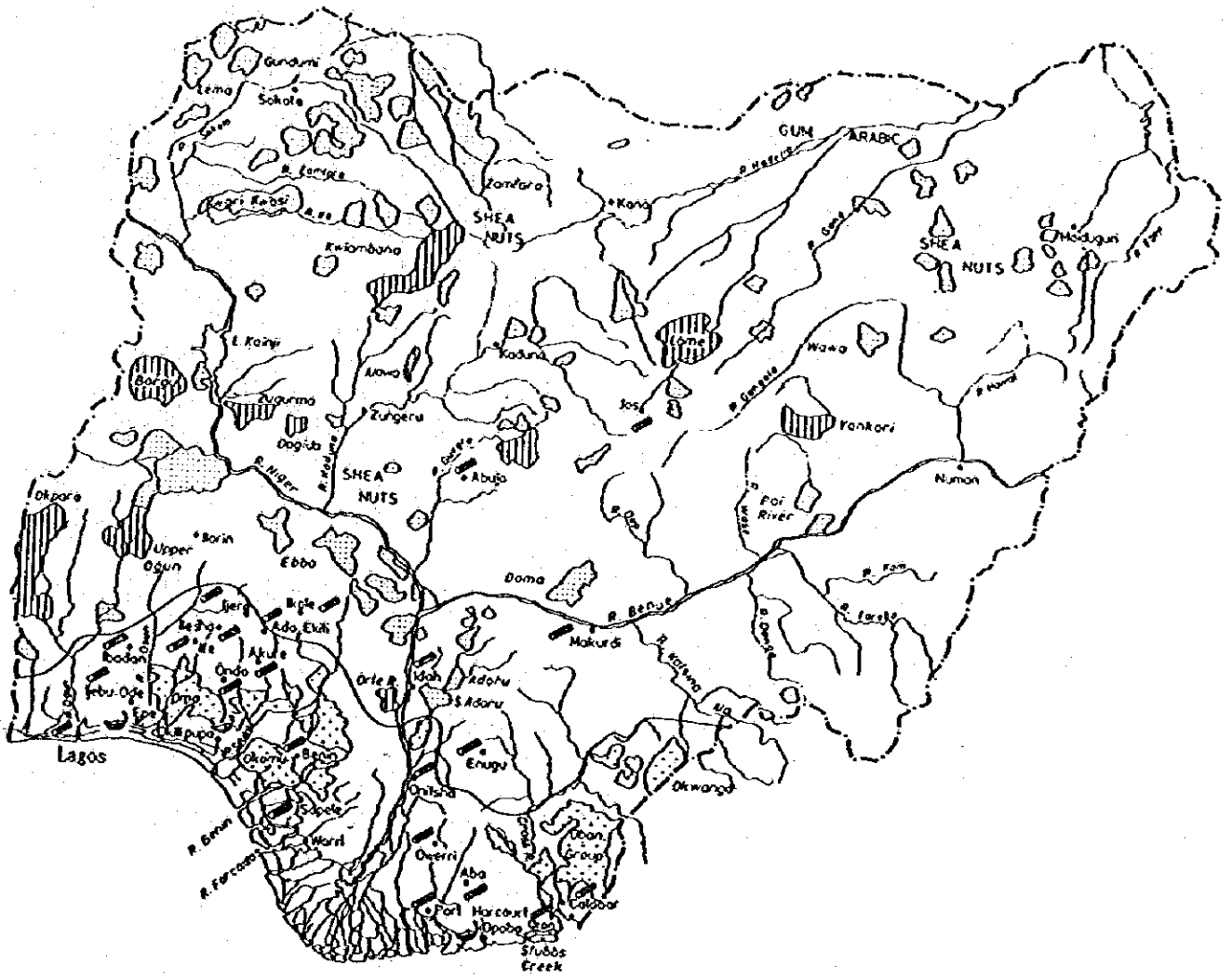
14. 水産業図









- F** Federal Fishing Depots
- ▲** Refrigerated Storage Depots
- ▨** Coastal fishing area



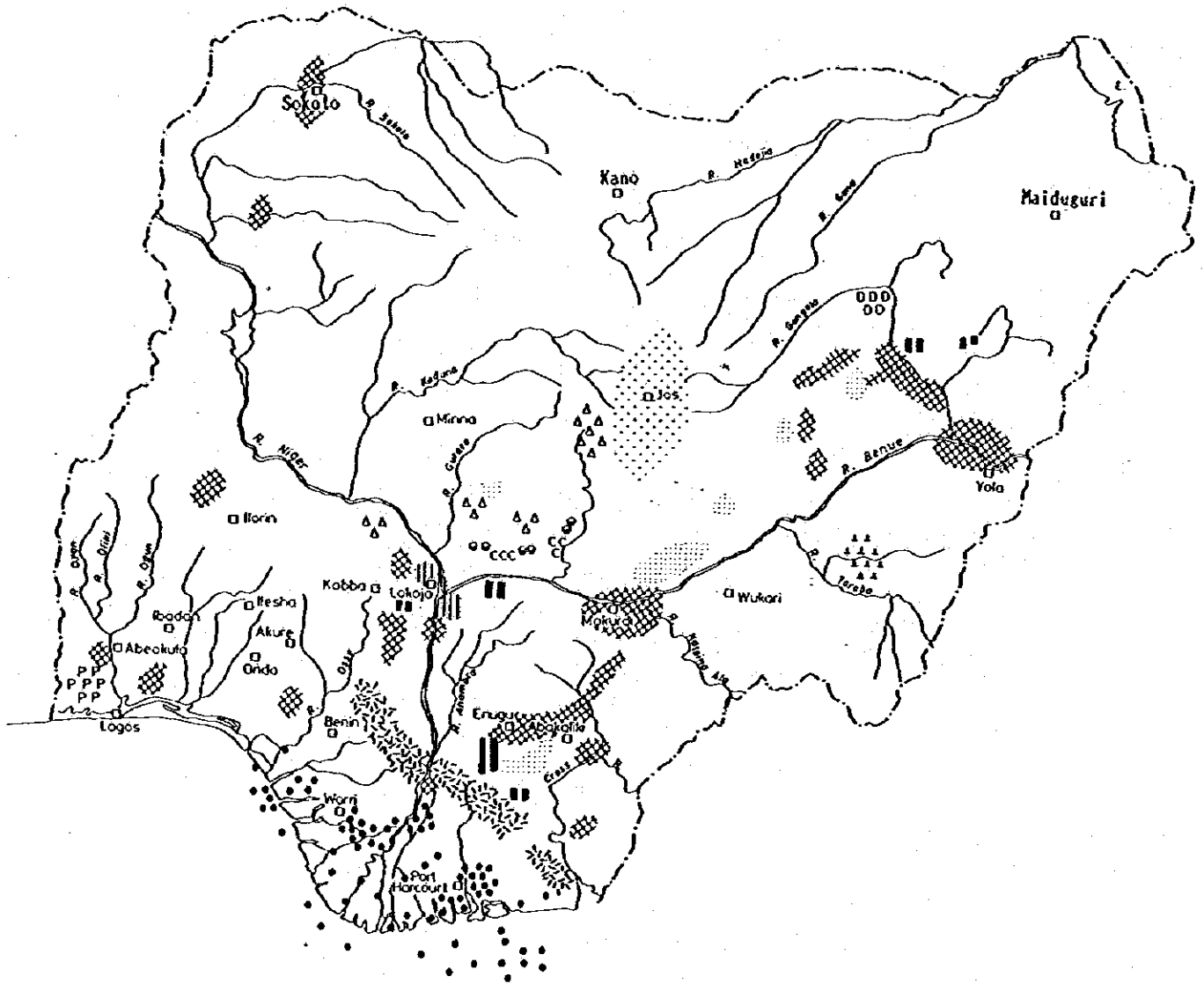
15. 森林資源



-  Forest reserves - high forest
-  Forest reserves - savanna woodland
-  Game reserves
-  Sawmills
-  Boat building
-  Northern limit of high forest

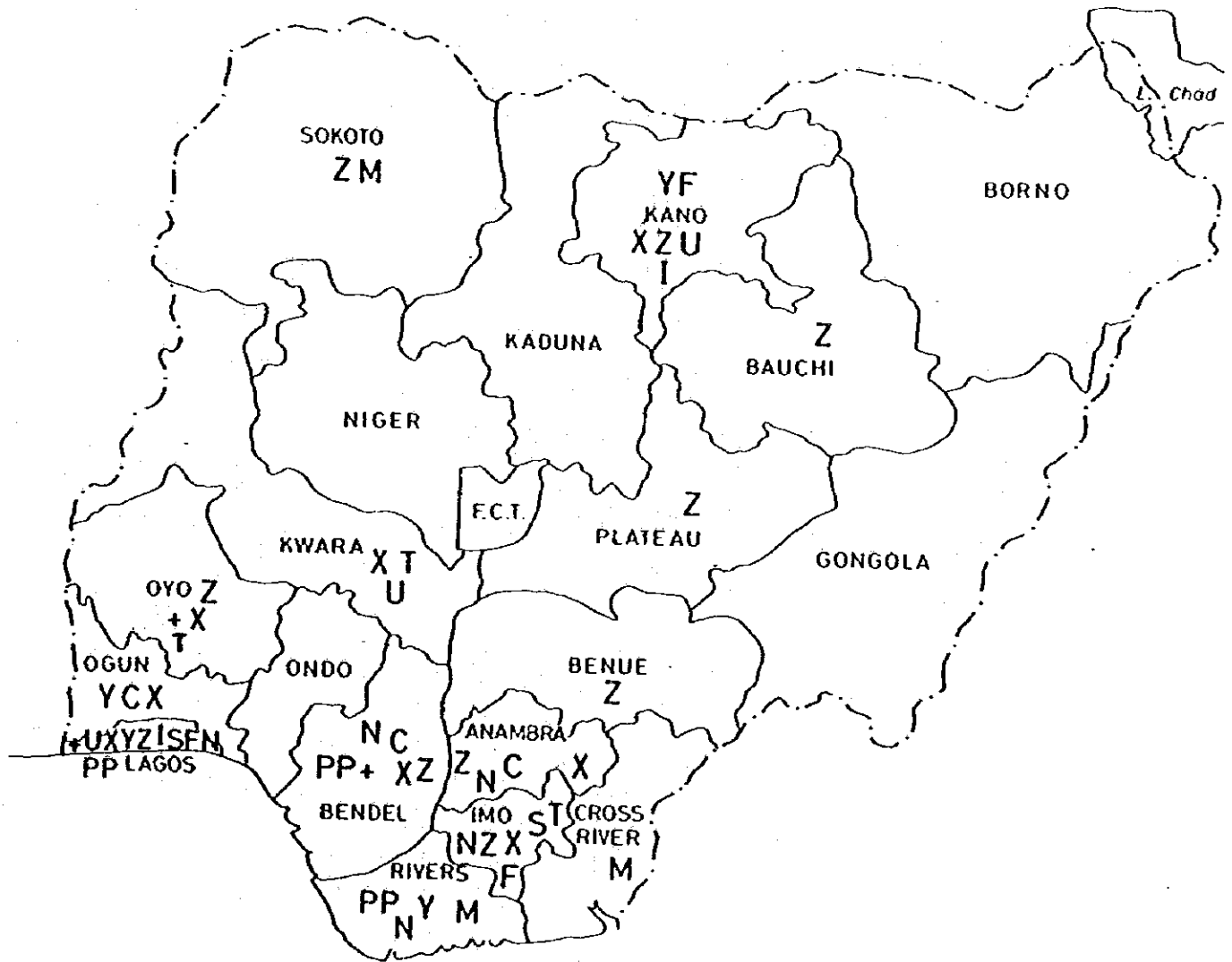
Canoes are hollowed out from logs at many points along the Niger and Benue Rivers and their tributaries.

16. 地下資源



- | | |
|--|--|
| <ul style="list-style-type: none"> ● Oil well ▣ Limestone and marble ▤ Lignite PPP Phosphate △△△ Graphite ▬ Black Coal ▬ Iron ore △△△ Tantalite CCC Columbite | <ul style="list-style-type: none"> ▤ Tin ore (Cassiterite) ○● Wolfram DD Diatomaceous earth □ Salt brine springs |
|--|--|

17. 商業物質図



COLONIAL NIGERIA

REGIONAL, PROVINCIAL AND DIVISIONAL BOUNDARIES, 1954.

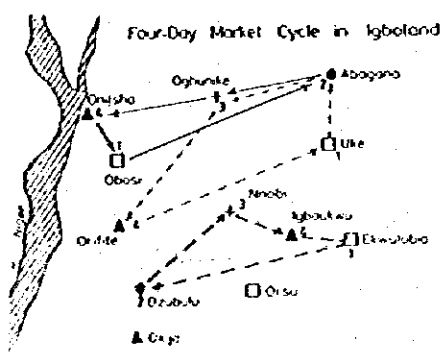
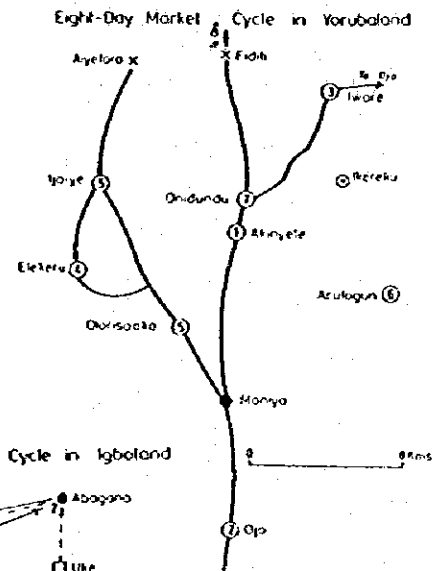
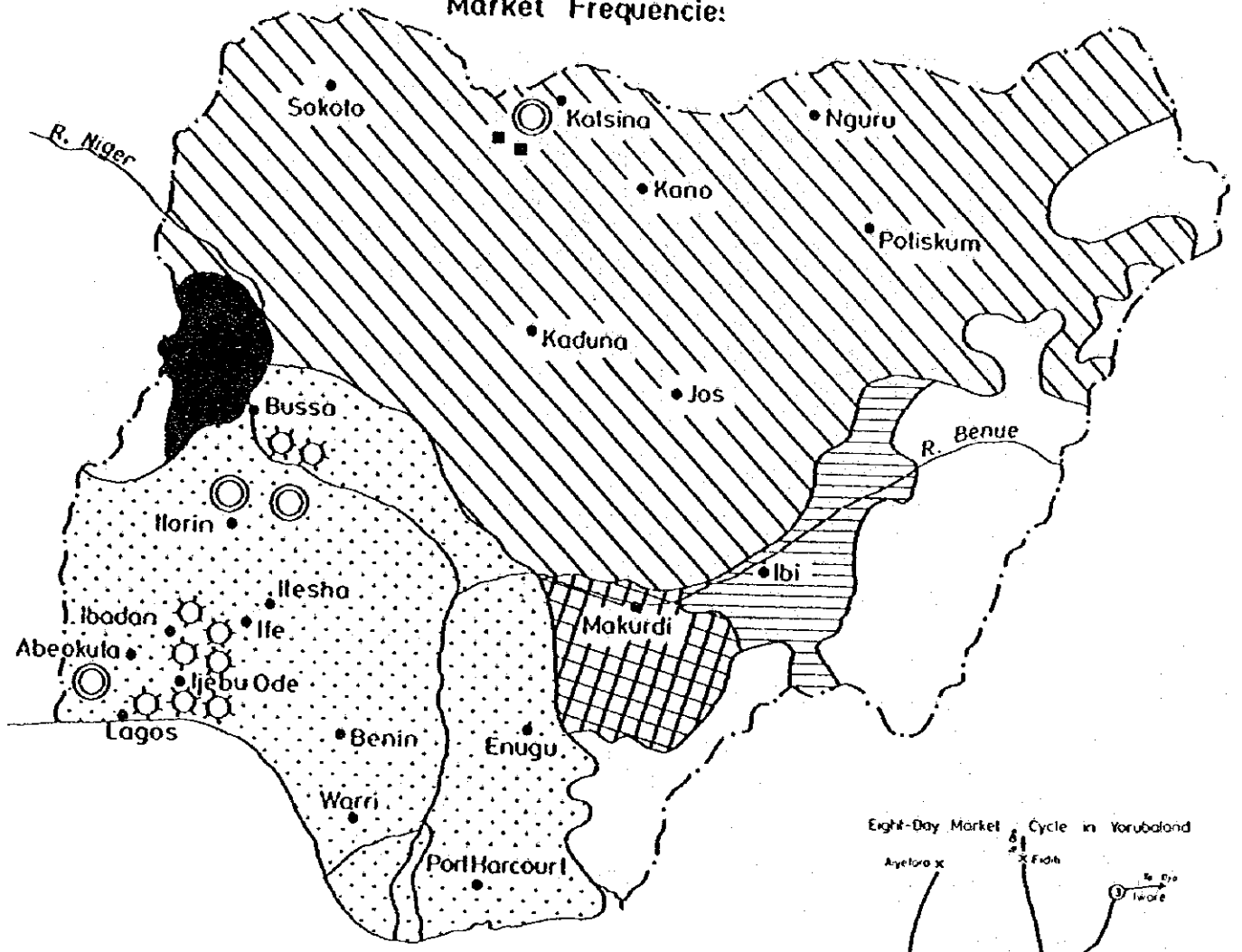
- International boundary
- Regional boundary
- Provincial boundary
- Divisional boundary
- Trusteeship boundary

- + Soft Drinks
- X Beer
- Z Textile
- C Cement
- S Soap and detergents
- T Tobacco
- F Foam Products

- Y Tyres
- M Matches
- PP Petroleum Products
- U Sugar
- I Boots and Shoes
- N Chemical Manure and fertilizers

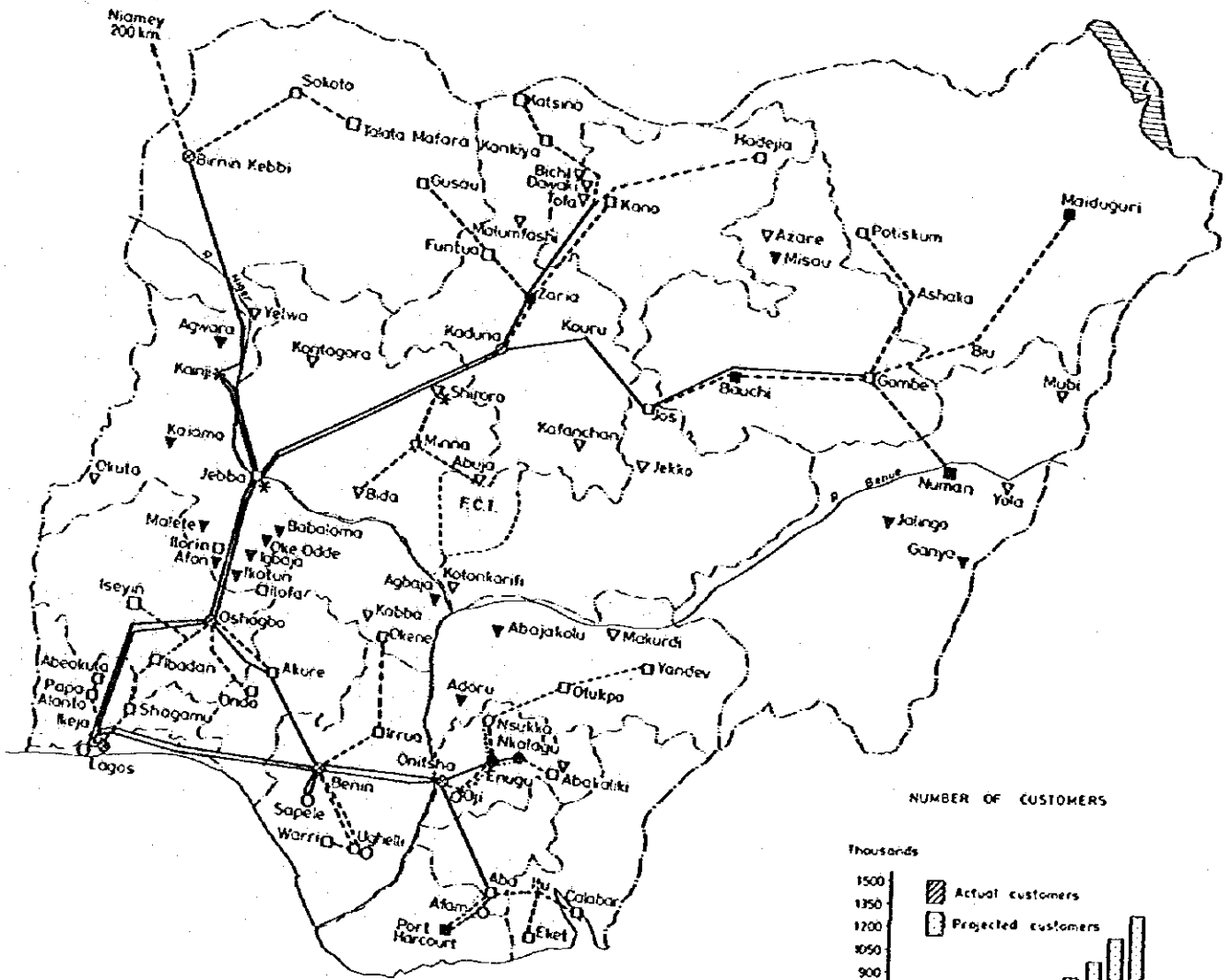
18. 伝統工芸

Market Frequencies:

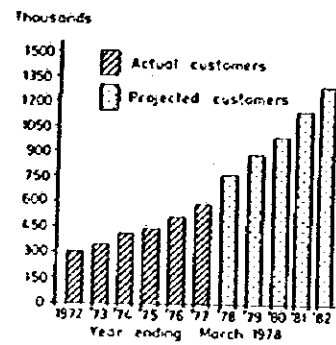


- KEYS**
- A**
 - Two-Day Markets
 - Three-Day Markets
 - ▨ Four-Day Markets
 - ▩ Five-Day Markets
 - ▧ Six-Day Markets
 - ▦ Seven-Day Markets
 - ⊕ Eight-Day Markets
 - Mixed Markets
 - B**
 - Periodic Day Market
 - ⊕ Periodic Night Market
 - Daily Morning Market
 - x Daily Night Market
 - Motorable Road
 - C**
 - Eke Market
 - Oye Market
 - ↑ Ife Market
 - ▲ Iba Market

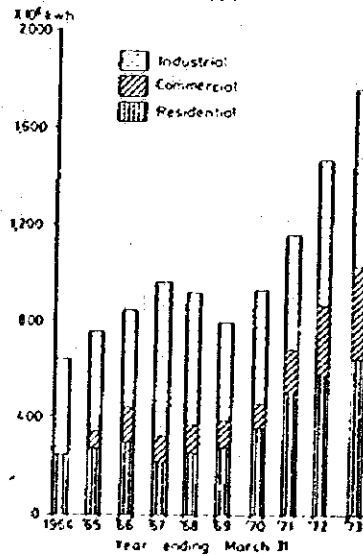
19. 電力



NUMBER OF CUSTOMERS



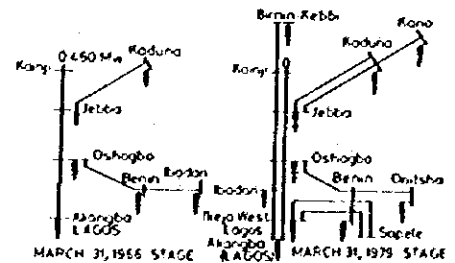
ENERGY SALES



NATIONAL GRID

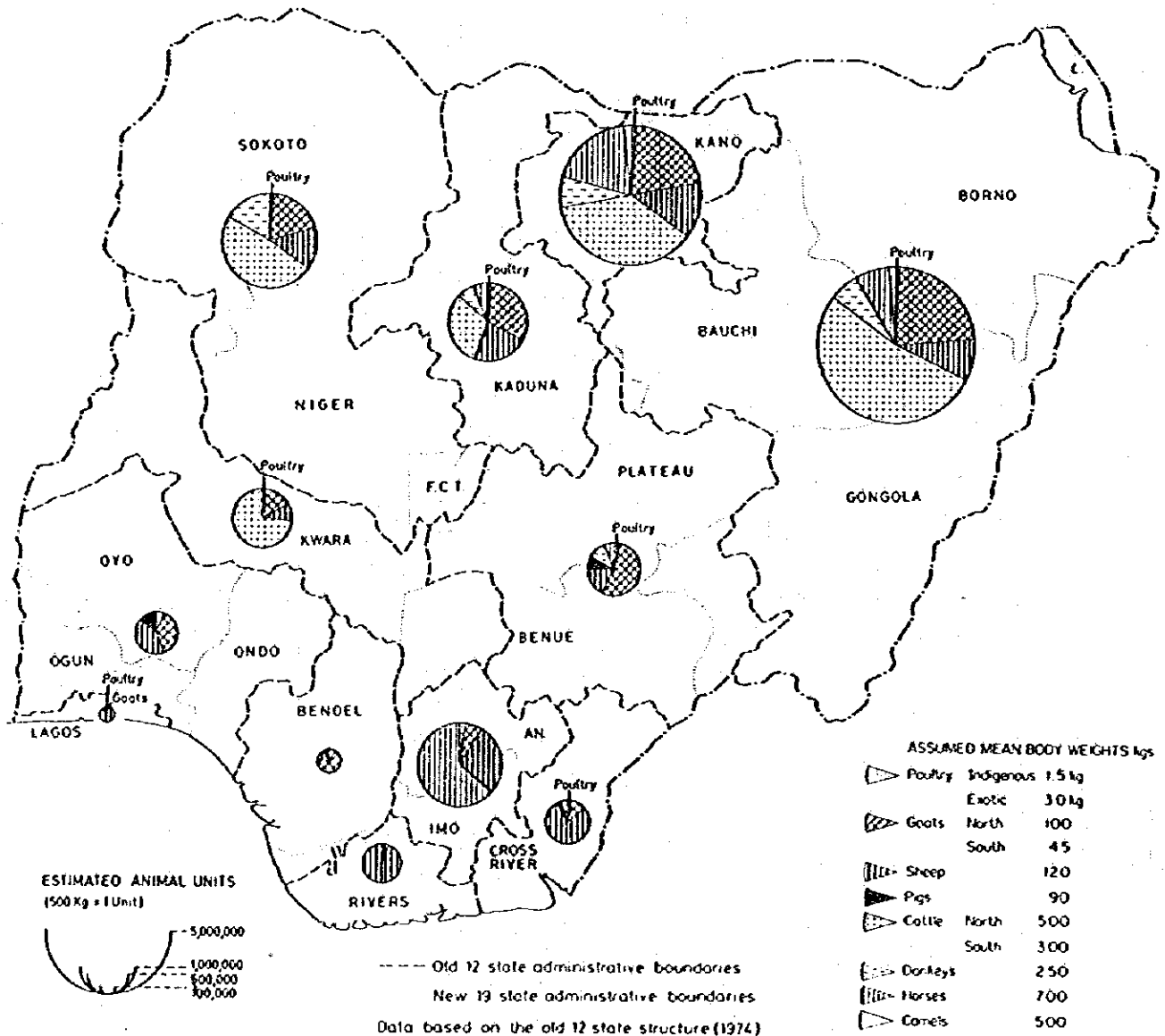
- POWER STATIONS**
- Thermal
- * Hydro-electric
- TRANSFORMERS**
- ⊙ 330 kv / 132 kv / 33 kv
- 132 kv / 33 kv
- 132 kv / 11 kv (proposed)
- 66 kv / 11 kv
- TRANSMISSION LINES**
- 330 kv
- - - 132 kv
- 66 kv

GRID SYSTEM DEVELOPMENT 330 kv

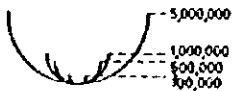


20. 家畜分布图 (1)

(1)



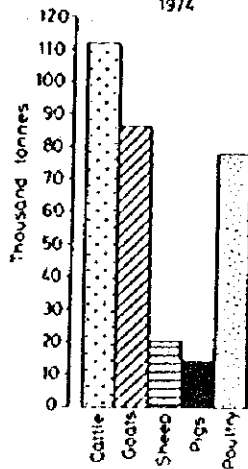
ESTIMATED ANIMAL UNITS
(500 Kg = 1 Unit)



--- Old 12 state administrative boundaries
 - - - New 19 state administrative boundaries
 Data based on the old 12 state structure (1974)

AN ANAMBRA
 FCT FEDERAL CAPITAL TERRITORY

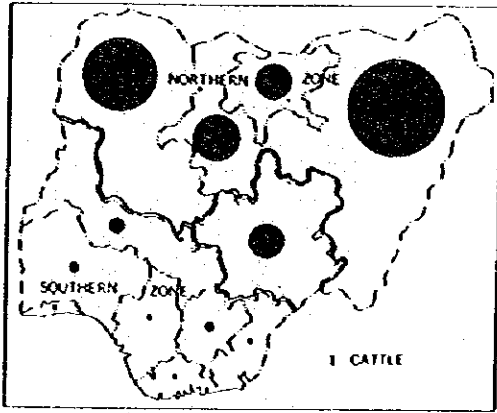
ESTIMATED MEAT PRODUCTION
1974



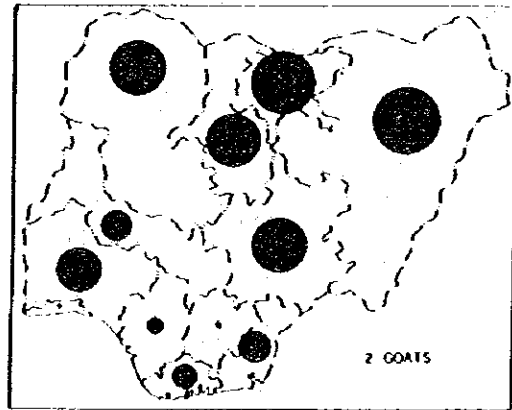
GENERAL PATTERN OF NOMADIC CATTLE MOVEMENTS



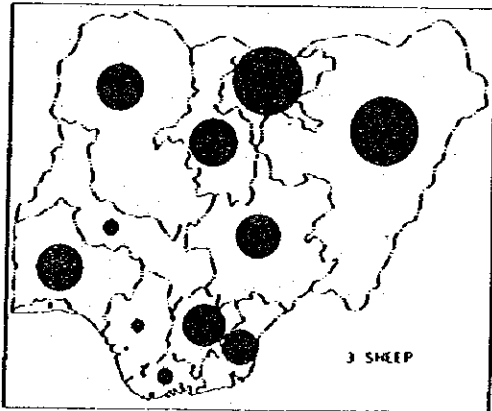
Distribution of livestock in the former 12 states (2)



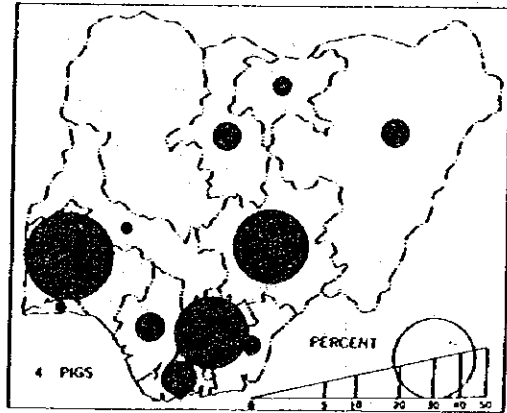
牛



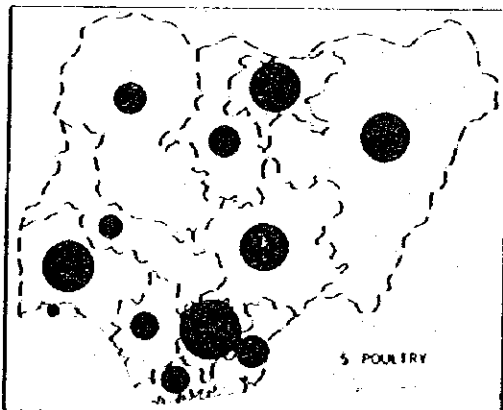
山羊



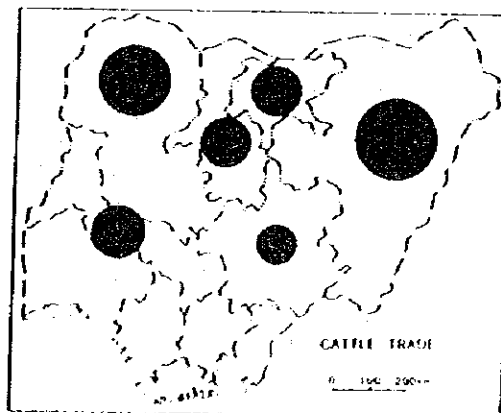
羊



豚

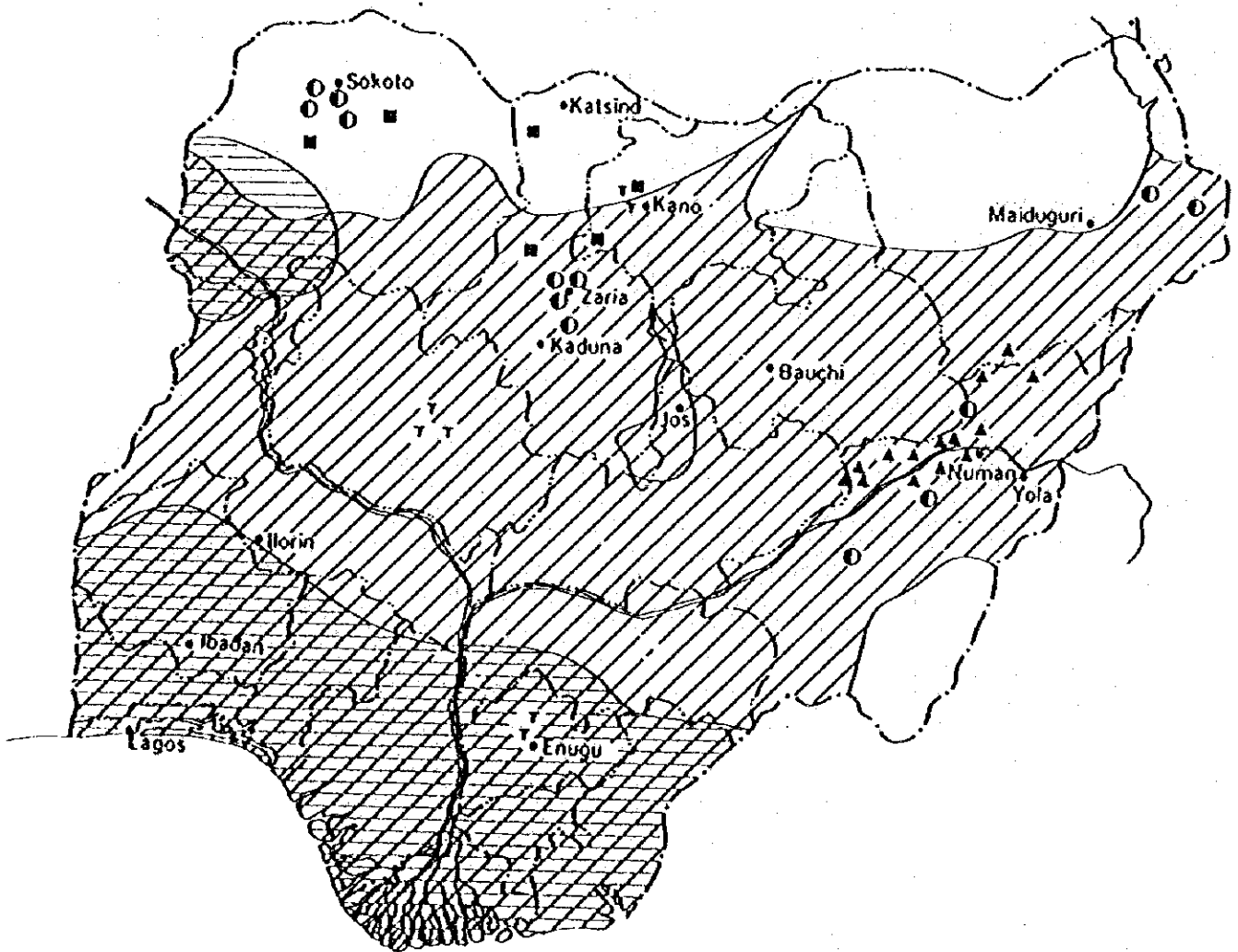


養鳥



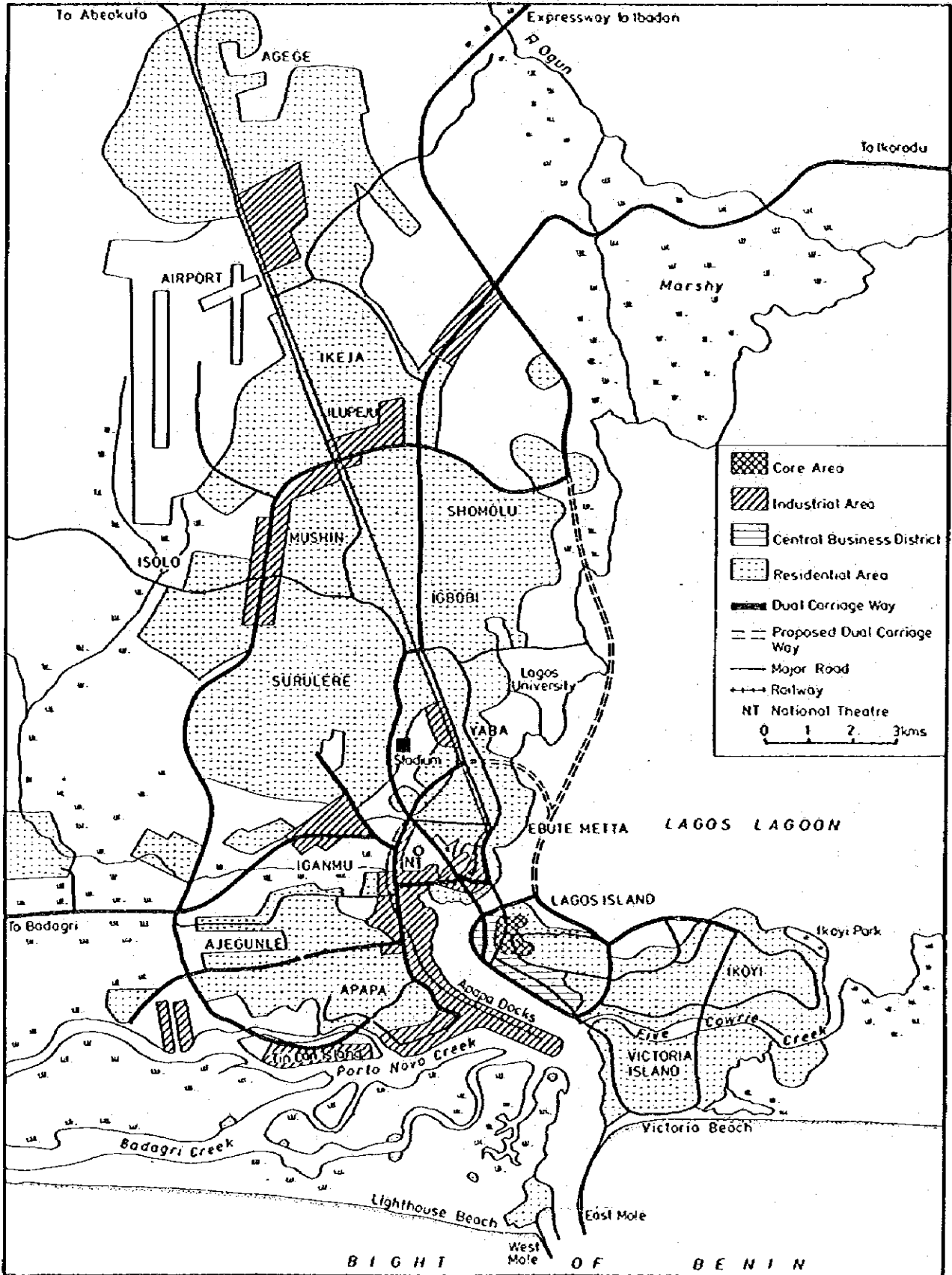
家畜市場

Distribution of some animal diseases (3)

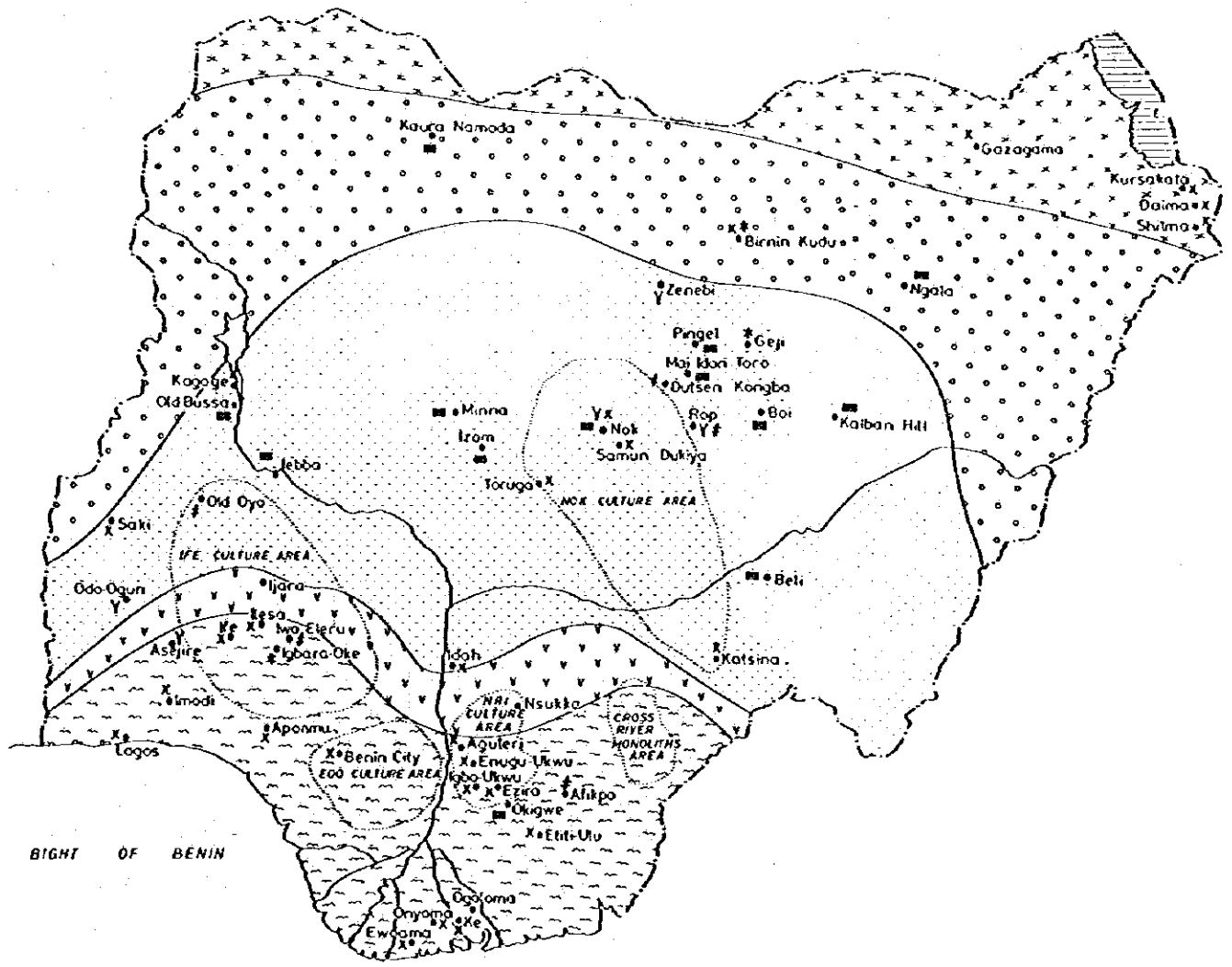


- International boundary
- State boundary
- ▨ Areas infested by Tsetse fly & Trypanosomiasis
- ▨ Rinderpest
- ▲ Anthrax
- Bovine pleuro pneumonia
- Blackquarter disease
- T Tuberculosis

22. 首都近郊交通図



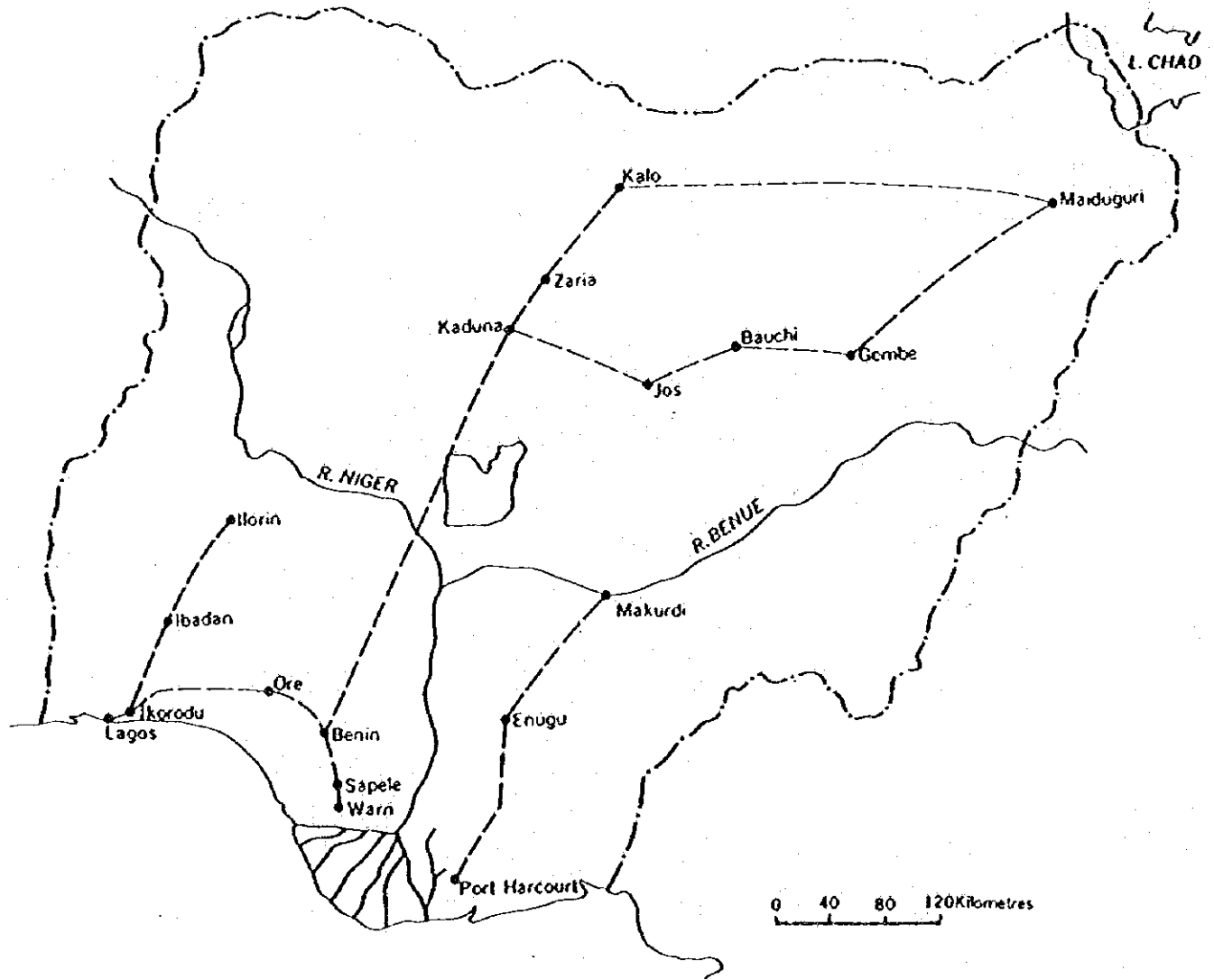
23. 古墳



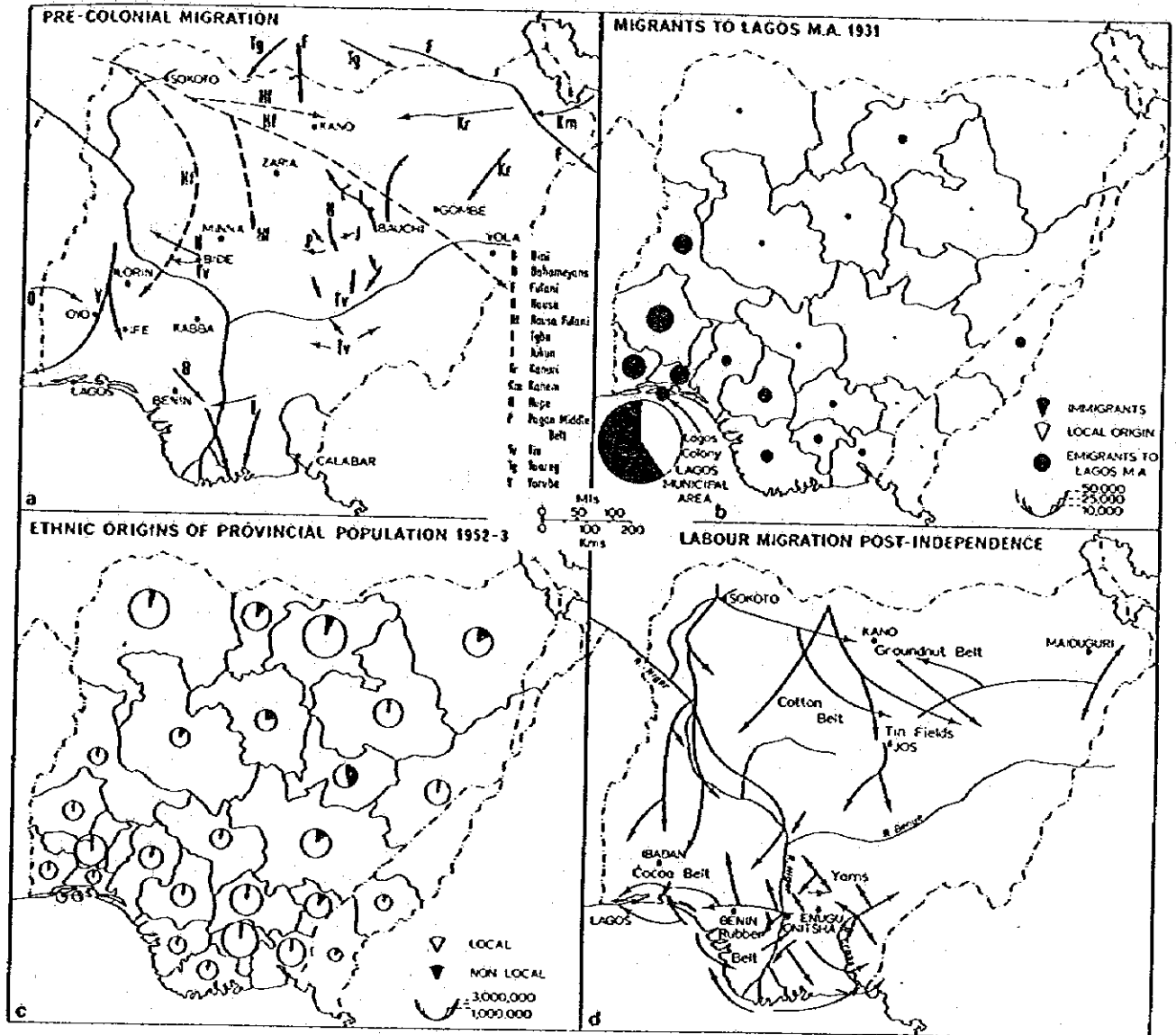
- Early Stone Age
- Y Middle Stone Age
- # Late Stone Age
- X Metal Age
- * Rock art/Rock painting

x x x	Sahel
o o o	Sudan savanna
o o o	Guinea savanna
v v v	Derived savanna
~ ~ ~	Forest

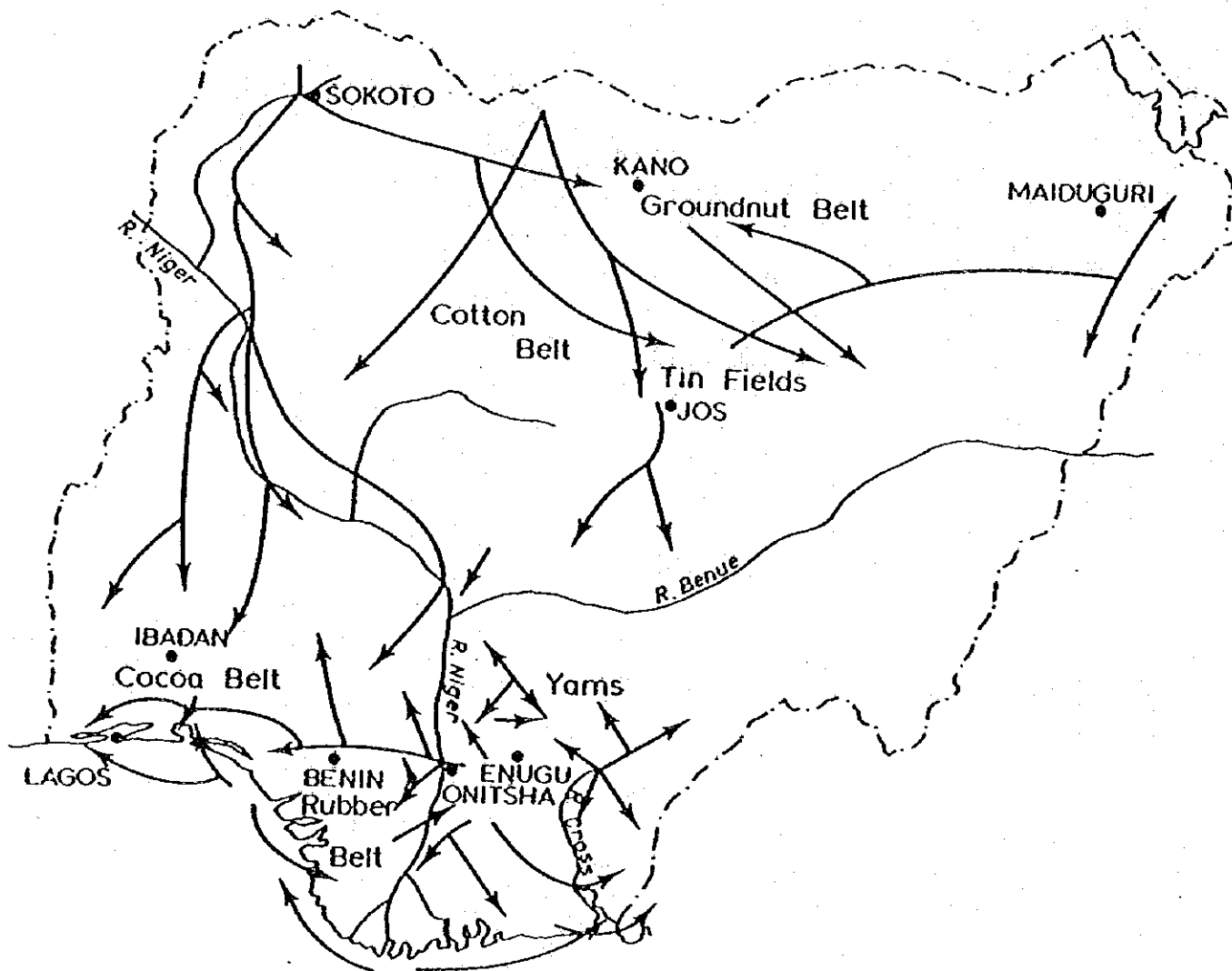
24. Proposed petroleum products pipelines in Nigeria in the Third National Development Plan, 1975-80



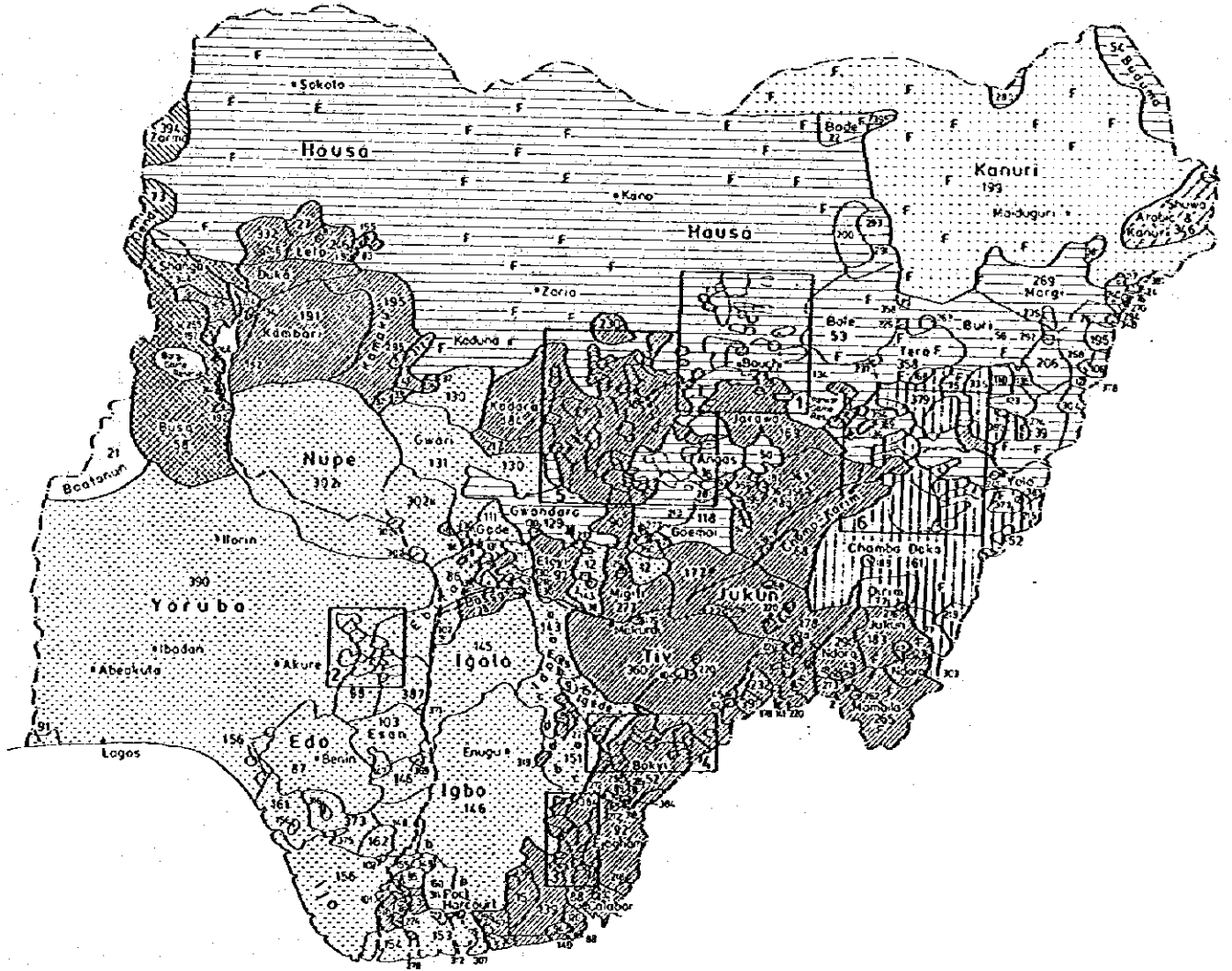
25. 移動図 Ethnic Group (1)



移動図 Ethnic Group (2)



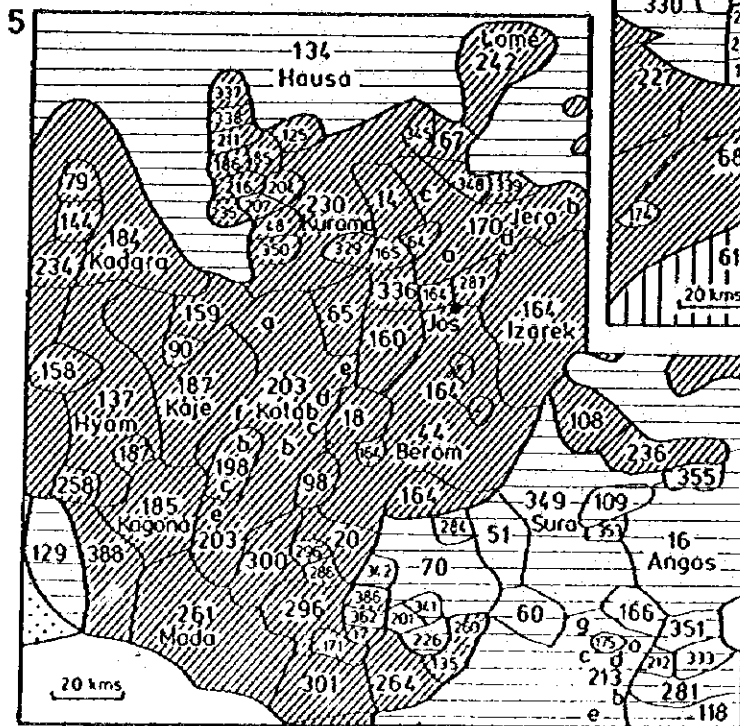
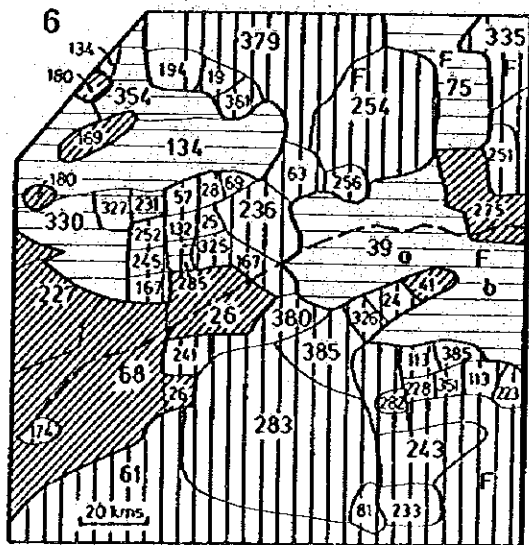
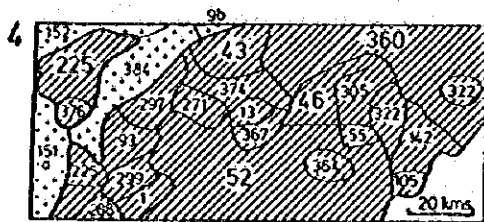
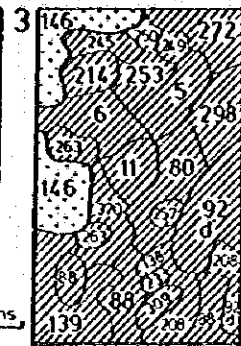
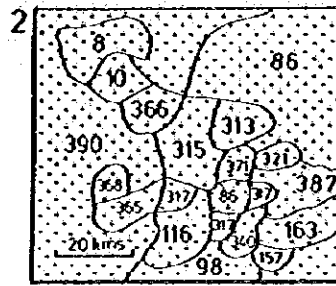
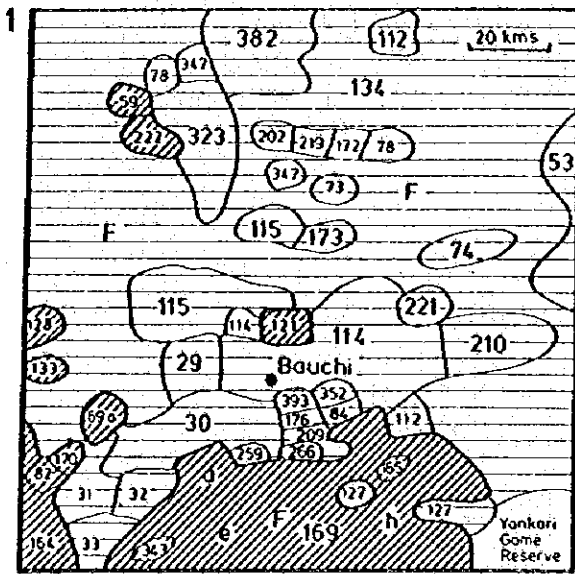
移動図 Ethnic Group (3)



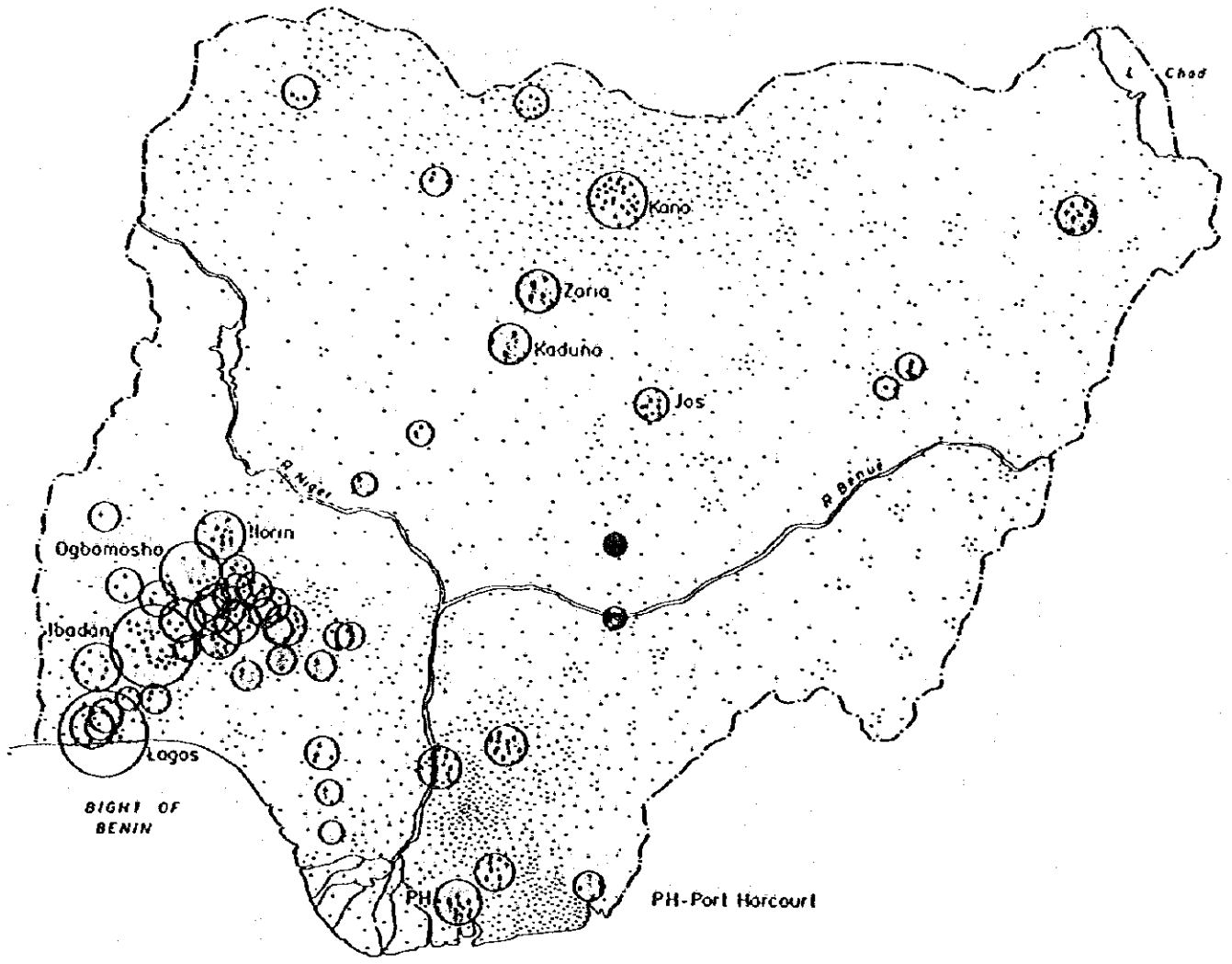
- | | |
|------------------------------------|-----------------------------------|
| NIGER-KORDOFANIAN
(NIGER-CONGO) | F West Atlantic
(NILO-SAHARAN) |
| Mande | Songhai |
| Gur | Saharan |
| Kwa | AFROASIATIC |
| Benue-Congo | Semitic |
| Adamawa | Chadic |

2 Information inadequate
 Where more than one language is shown, each is spoken

移動図 Ethnic Group (4)



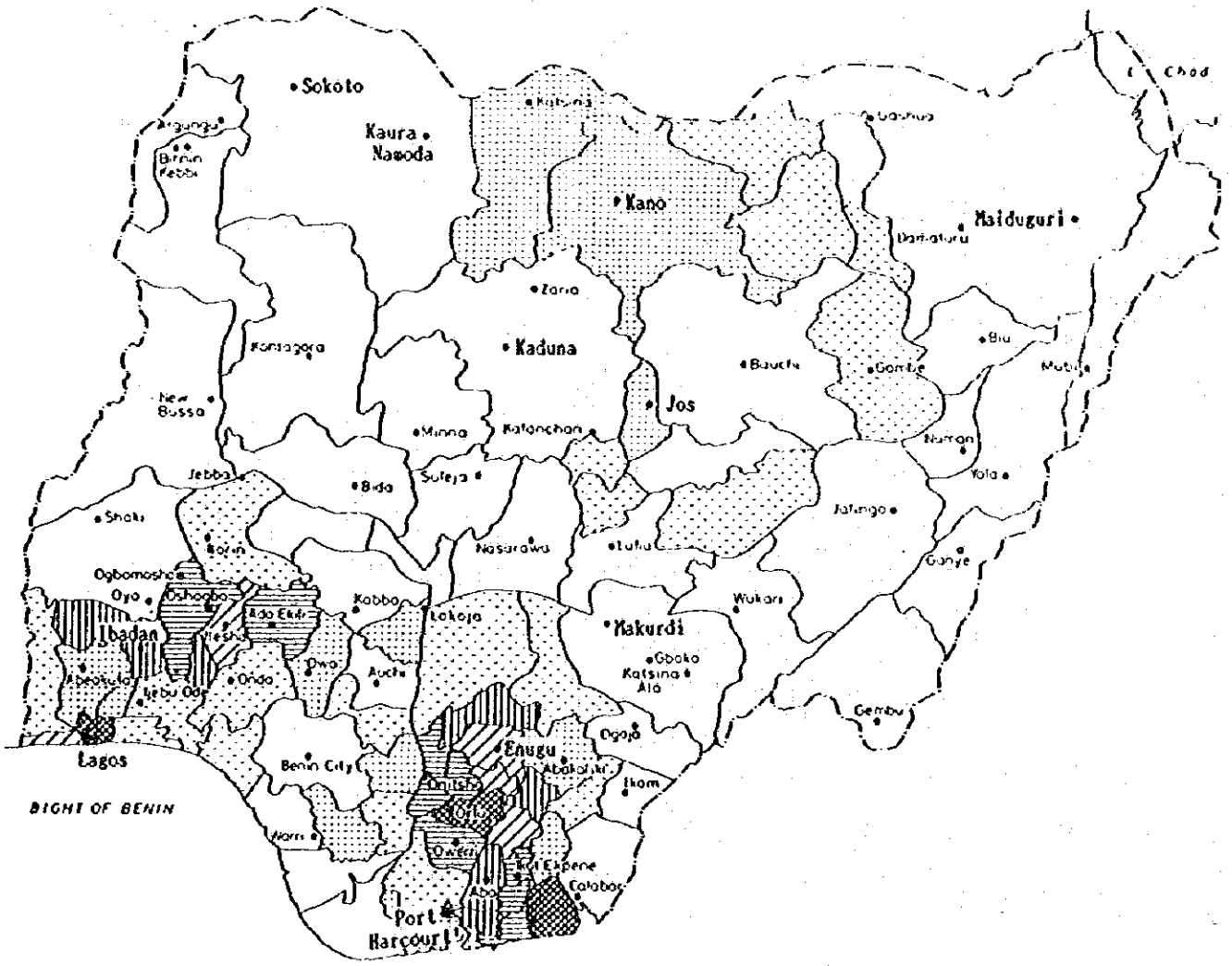
26. 人口分布图 (1)



∴ Each dot represents 20,000 persons
 Towns over 50,000 persons
 300,000 --- 600,000
 50,000 --- 100,000

人口分布图

(2)



27. 言語 (Ethnic Group 図参照)

KEY TO THE LANGUAGE NUMBERS

* Dialect cluster	Barawa** 29* Geji 30* Polci	** Language cluster	62 Chambe Leko 63 Cham-Mwana 64 Chara 65 Chawai 66 Chip 67 Chokobo 68 Chomo-Karim 69 Dadiya 70 Daffo-Batura 71 Defaka 72 Degema 73 Dendi 74 Deno 75 Dera 76 Dghwede 77 Dirim 78 Dirya 79 Doka 80 Doko-Uyanga 81 Dong 82 Duguza 83 Duka 84 Dulbu 85 Dungi 86 Ebira 87 Edo (Bini) 88 Efik 89 Efutop 90 Eggon 91 Egun 92 Ejagham* 92a Bendeghe 92b Etung-North 92c Etung-South 92d Ejagham 92e Ekin 93 Ekajuk 94 Ekit 95 Ekpeye 96 Eleme 97 Eloyi	98 Emai-Luleha-Ora* 99 Emame 100 Engenni 101 Epic 102 Eruwa 103 Esan 104 Etulo 105 Evant 106 Fali F Fulfulde 108 Fyam 109 Fyer 110 Ga'anda 111 Gade 112 Galambi 113 Gengle 114 Gera 115 Geruma 116 Ghotuo 117 Glavda 118 Goemai 119 Gokana 120 Gongla 121 Gubi 122 Gude 123 Gudu 124 Guduf 125 Gure-Kahugu 126 Gurmana 127 Guruntum-Mbaaru 128 Gwa 129 Gwandara Gwari** 130 Gwari-Matai 131 Gwari-Yamma 143b Idoma Central 143c Idoma West 143d Idoma South
1 Abanyom				
2 Abon				
3 Abua				
4 Affade				
5 Agoi				
6 Agwagwune*				
6a Agwagwunc		31* Zecm		
6b Erci		32* Dass		
6c Abini		33* Zari		
6d Adim		34* Saya		
6e Abayongo		(35) Barke		
6f Etono II		36 Bashar		
7 Ake		37 Bassa Kaduna		
8 Akoko		38 Bassa-Kwomu		
North*		39 Bata*		
9 Akpa-Yache*		39a Bacama		
9a Akpa		39b Bata		
9b Yache		40 Batu		
10 Akpers		41 Baushi		
11 Akpet-Ehom		42 Baya		
12 Alago		43 Bekwarra		
13 Alege		44 Berom		
14 Amo		45 Bete		
15 Anaang		46 Bette-Bendi		
16 Angas		47 Bile		
17 Arum-Chessu		48 Binawa		
18 Aten		49 Bitare		
19 Awak		50 Boghom		
20 Ayu		51 Bokkos		
21 Baatonum		52 Bokyi		
Bade**		53 Bole		
195 Duwai		54 Buduma		
22 Bade		55 Bumaji		
293 Ngizim		56 Bura		
23 Bakpinka		57 Burak		
24 Bali		58 Busa		
25 Bambuka		59 Buta-Ningi*		
26 Bandawa-Minda		59a Buta		
		59b Ningi		
27 Banga		60 Chakfem-Mushere		
28 Bangwinji		61 Chamba Daka		

144	Idon		169h N.E.	195	Kamuku*		Chamo*
145	Igala		Duguri		195a Achipa		222a Kuda
	Igbo**		169i S.W.		195b Ucinda		222b Chamo
146*	Igbo		Duguri	196	Kamwe	223	Kugama
	146a Eche		169j Bada	197	Kana	224	Kugbo
	146b Egbema	170	Jera*	198	Kanufi-	225	Kukele
147	Ika		170a Buji		Kaningkon-	226	Kulere
148*	Ukwuani-		170b Gusu		Nindern*	227	Kulung
	Aboh		170c Jere		198a Kanufi	228	Kumba
149	Ogbah		170d Ribina		198b Kaningkon	229	Kupto
150	Ikwere	171	Jidda-Abu		198c Nindem	230	Kurama
151*	Izi-Ezaa-	172	Jimbin	199	Kanuri	231	Kushi
	Ikwo-Mgbo	173	Jimi	200	Karekare	232	Kuteb
	151a Izi	174	Jiru-Kir	201	Karfa	233	Kutin
	151b Ezaa	175	Jorto	202	Kariya	234	Kuturmi
	151c Ikwo	176	Ju	203	Katab*	235	Kuzamani
	151d Mgbo		Jukun**		203a Katab	236	Kwa
153	Ijo Eastern		177 Jukun of		203b Kagoto	237	Kwami
	153a Kalabari		Wukari		203c Atakat	238	Kwanka*
	153b Okrika		178 Jukun of		203d Sholio		238a Kwanka
	153c Ibani		Takum		203e Kachi-		238b Boi
	153d Nkoro		and		chere		238c Bijim
154	Ijo Nembe		Donga		203f Kafanchan		238d Legeri
155*	Ijo Biseni-		179 Kukun of	204	Kiballo	239	Kyibaku
	Okordia		Abin si	205	Kila	240	Laamang*
156	Ijo Central		180 Jukun of	206	Kilba		240a Laamang
157	Ikpeshi		Kona	207	Kinuku		North
158	Iku-Gora-		181 Jukun of	208	Kiong		240b Laamang
	Ankwa		Wurkum	209	Kir-Balat		South
159	Ikulu		182 Kukun of	210	Kirifi	241	Laka
160	Irigwe		Wase	211	Kitimi	242	Lame*
161	Esekiri		183 Jibu	212	Koenoem		242a Bambaro
162	Isoko	184	Kadara	213	Kofyar*		242b Gura
163	Ibbie North*	185	Kagona		213a Kofyar	243	Lamja
164	Izarek	186	Kaivi		213b Mernang	244	Laru
165	Jaku	187	Kaje		213c Deomak	245	Legbo
166	Janji	188	Kaka		213d Kwagallak	246	Lela
167	Janjo	189	Kam		213e Bwol	247	Lelau
168	Jara	190	Kamantam		213f Gworam	248	Lemoro
169	Jarawa*		Kambari**		213g Jipal	274	Mboi*
	169a Bankal	191	Kambari I	214	Kohumono		274a
	169b Ligri		191a Kakihum	215	Koma		274b Banga
	169c Kanam		191b Ibeto	216	Kono		274c Handa
	169d Bobar		191c Salka	217	Koro	275	Mbula-
	169e Gingwak	192*	Kambari II	218	Korop		Bwazza*
	169f Duguri		192a Auna	219	Kotopo		275a Mbula
	of Gar		192b Agara'iwa	220	Kpan		275b Bwazza
	169g Duguri of	193	Kamkam	221	Kubi	276	Mbute
	Badara	194	Kamo	222	Kuda-	277	Migili

278	Mini	305	Obanliku*	332b	Geeri-Ni	365	Uhami-Iyayu
279	Miya		305a Basang	332c	Keri-Ni	366	Ukaan
280	Mober		305b Bebi	332d	Wipsi-Ni	367	Ukpe-
281	Monto		305c Bishiri	333	Pyapun		Bayobiri*
282	Mumbake		305d Bisu	334	Reshe		367a Ukpe
283	Mumuye		305e Busi	335	Roba		367b Bayo-
284	Mundat	306	Obolo	336	Rukuba		biri
285	Munga	307	Obulom	337	Rumaya	368	Ukue-Ehuen
286	Nandu-Tari	308	Oduai	338	Rurama	369	Ulukwumi
287	Naraguta	309	Odut	339	Sanga	370	Umon
288	Nde-Nsele-	310	Ogbia*	340	Sasaru-	371	Uneme
	Nta		310a Kolo		Enwan-	372	Ura
	288a Nde		310b Oloibiri		Igwe	373	Urhobo
	288b Nsele		310c Anyama	341	Sha	374	Utugwang*
	288c Nta	311	Ogbogolo	342	Shagawu	374a	Utugwang
	289 Ndoe*	312	Ogbronua-	343	Shall-Zwall	374b	Okorogung
	289a Ekpara-		gum		343a Shall		
	bong	313	Ogori-		343b Zwall		
	289b Balep		Magongo*	344	Shanga	374c	Okoro-
290	Ndoro		313a Ogori	345	Shani	tung	
291	Ngamo		313b Magongo	346	Shuwa	374d	Afrika
292	Nggwaphyi	314	Okobo	347	Arabic	374e	Oboso
293	See 22	315	Okpamberi	348	Siri	375	Uvbie
294	Ngoshe	316	Okpe	349	Sukur	376	Uzekwe
	Ndhang	317	Okpe-Idesa-	350	Sura	377	Verre
295	Ngwoi		Oloma-	351	Surubu	378	Vimtim
296	Ninzam		Akuku	352	Tal	379	Waja
297	Nkem-	318	Olulumo-	353	Tala	380	Waka
	Nkun*		lkom*	354	Tambas	381	Wandala*
	297a Nkem		318a Olulumo	355	Tangale	381a	Gamargu
	297b Nkum		318b lkom	356	Tapshin	381b	Kirawa
298	Nkukoli	319	Oring*	357	Tarok	382	Warji
299	Nnam		319a Ufia	358	Teme	383	Wom
300	Numana-		319b Effium		Tera*	384	Yala
	Gwantu*	320	Oron		358a Nyi-	385	Yandang
	300a Numana	321	Ososo		matli	386	Yashi
	300b Nunku	322	Otank		358b Pidlimdi	387	Yekhee
	300c Gwantu	323	Pa'a			388	Yeskwa
301	Nungu	324	Pai	359	Tita	389	Yiwon
302	Nupe	325	Panyam	360	Tiv	390	Yoruba
	302a Nupe	326	Passam	361	Tula	391	Yukeben
	Central	327	Pero	362	Turkwarm	392	Yungur
	302b Gana-	(328)	Pidgin	363	Ubaghara*	393	Zangwal
	gana	329	Piti		363a Biak-	394	Zarma
	302c Kakanda	330	Piya		pun	395	See 22
	302d Bassa-	331	Dongu		363b Ikun		
	Nge	332	Puke-Geeri-		363c Etono		
	302e Eggan		Keri-		363d Ugbem		
303	Nyamnyam		Wipsi*		363e Utuma		
304	Nzangi		332a Puke-Nu	364	Ubang		

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